

DESIGNER SERIES - H.I.D.

indy[™]

Downlights and
adjustable accent lights



Indy's Designer Series High Intensity Discharge (H.I.D.) downlights, wallwashers and adjustables will enhance interior spaces while disappearing into it. Engineered to capitalize on the outstanding performance and incandescent-like color of today's ceramic metal halide lamps, the Designer Series can illuminate and highlight architectural features creating a vibrant, warm atmosphere, bringing drama and excitement to any lighting application. Whether lighting a hotel atrium, high-end commercial space, retail store or church sanctuary, the proper ambiance is assured when utilizing this versatile product line.

What makes the Designer Series special is a two-piece or "staged optics" system. The upper reflector/lower cone design results in unsurpassed glare control and the "quiet ceiling" appearance standard to all Designer Series products. The staged optics design begins with a sophisticated, lamp-dedicated upper reflector that maximizes the lumen output of the T-4, T-6 and ED-17 lamps and provides performance which surpasses halogen PAR lamps. The upper reflector focuses light in the 0° to 40° viewing angle facilitating the reduction of the distracting flash in the lower cone common with many other fixtures.

While glare control is achieved by reducing light at the higher viewing angles, visual comfort is further improved upon by the use of a satin finished lower cone. This minimizes rainbowing and creates the very pleasing and desired "quiet ceiling" appearance.

Designer Series Ordering Information

Source	Type	Lamp Configuration	Aperture	Wattage	Ballast	Voltage	Finish Options	Trim	Satin	Flange	Accessories
H	A	3	8	70	E	1	CG	C	S	F	CP
H.I.D.	D	1	4	20	E	1	SA	C	S	F	FL
	Downlight	Vertical ED-17		T-4 only	Electronic	120	Specular	Cone	Satin	Flat	Flood Reflector
	A	Non-protected	6	39		2	CG				MFL
	Accent	2		T-4/T-6		277	Gold				Medium Flood Reflector
	W	Horizontal ED-17	8	PAR20/PAR30			BA				F
	Wallwash	Non-protected		50			Black				Fuse and fuse holder
		3	10	ED-17			PA				CP
		Vertical ED-17		70			Pewter				Chicago plenum approval
		Protected	12	T-4/T-6/ED-17			WT				825
		4		PAR30/PAR38			Wheat				"C" channel mounting bars, pair
		Horizontal ED-17 Protected		ED-17/PAR38			BR				SCA
		5		150			Bronze				Sloped ceiling adapter
		Vertical T-6		T-6/ED-17			WH				PF
		6		PAR38			White paint				Painted flange
		Horizontal T-6					BK				
		7					Black paint				
		Vertical T-4									
		8									
		Horizontal T-4									
		9									
		Vertical White Son T-10									
		A									
		Horizontal White Son T-10									
		B									
		PAR									

	Specular Clear Alzak® Satin (Standard)
	Champange Gold Alzak Satin
	Black Alzak Satin
	Pewter Alzak Satin
	Wheat Alzak Satin
	Bronze Alzak Satin

Lighting Solutions

The Designer Series H.I.D. downlights and adjustable accents with their outstanding optic performance maximize the incandescent-like color and high intensity of ceramic metal halide lamps, delivering drama and excitement to any environment. Cost savings are an additional benefit as ceramic metal halide lamps are up to three times more efficient than halogen sources and 10-17% more efficient than comparable CMH lamps operated with magnetic ballasts.

Whether lighting an atrium, a shopping mall or high-end commercial or retail application, architectural spaces are brought to life.



A Reflector

A lamp dedicated upper reflector optimizes the lumen output of the T-4, T-6 and ED-17 for center beam candle power that is superior to halogen PAR lamps. Multiple beam distributions are available for most units and can be field changed.

A standard with all Designer Series fixtures, glare control is facilitated by the maximizing of light in the 0° to 40° viewing area and provides for greater visual comfort.

B Cone

Self-flanged, glare-controlling cone with Alzak® satin iridescent-free finish minimizes rainboding and reduces distracting spill light, creating a pleasant 'quiet ceiling' appearance. Accent unit's angle cut cone follows vertical track of lamp to reduce sight lines into housing.

C Lamps

Ceramic metal halide lamps, such as the T-6 pictured in the above fixtures, combine the efficiency and long life of H.I.D. with the crisp color and optical control of halogen sources. Application flexibility is further enhanced by providing a family of luminaires that use T-4, T-6, ED-17 and PAR lamp configurations.

D Ballast

Electronically controlled metal halide lamps use less energy and have improved lamp-to-lamp color stability and longer life when compared to magnetic ballast systems. The improved lamp life and lower operating temperature result in lower maintenance costs.

E Housing

Commercial grade construction for greater structural integrity. Black baked enamel finish reduces stray light leaks.

F Mounting Bracket

Adjustable mounting brackets provide 2" of vertical adjustment to facilitate installation. These brackets accept 1½" 'C' channel mounting bars. Indy Tru-Lock bar hangers are standard for secure mounting into T-bar drop ceiling applications.

G Junction Box

For service, the J-box is easily accessible through fixture's aperture. U.L. listed for through branch wiring and damp locations.

H Access Door

Access panel allows for convenient, cost-saving maintenance from below the ceiling.

I Adjustability

Highly engineered accent units provide 358° horizontal rotation and up to 45° vertical aiming of lamp. Easy to use aiming and locking mechanisms assure lamp maintains proper position even through relamping cycles.

T-4 Adjustable Accent Light

4" HA74

Product Numbers

Catalog #	Wattage	Cone Finish
HA74-20E []-SACSF	20	Specular Clear Satin
HA74-39E []-SACSF	39	Specular Clear Satin
HA74-70E []-SACSF	70	Specular Clear Satin

[] Voltage designation required: 1=120V; 2=277V

Performance Data: HA74-39E-SACSF (Spot)

Lamp Type: 39W T-4.5 Metal Halide (CDM35/TC/830)

Initial Lumens: 3300

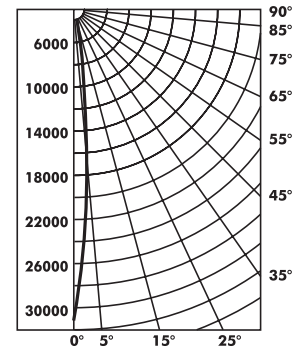
Max. CBCP: 30,276

Beam Spread: 10.2°

Beam Spread

Dist.	Footcandles		Dia.
	@ Center	@ Edge	
6'	841	431	1.1
7'	618	317	1.3
8'	473	243	1.4
9'	374	192	1.6
10'	303	155	1.8
11'	250	128	2.0
12'	210	108	2.1
13'	179	92	2.3
14'	155	79	2.5
15'	135	69	2.7

Candela Distribution



Beam edge is defined as 50% of maximum nadir candlepower.

Performance Data: HA74-39E-SACSF/MFL (Medium Flood)

Lamp Type: 39W T-4.5 Metal Halide (CDM35/TC/830)

Initial Lumens: 3300

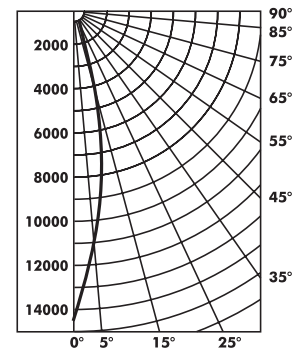
Max. CBCP: 14,223

Beam Spread: 18.5°

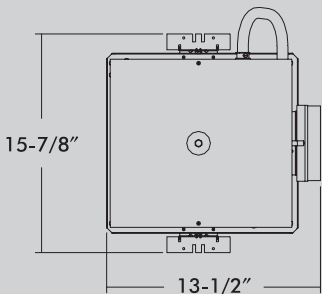
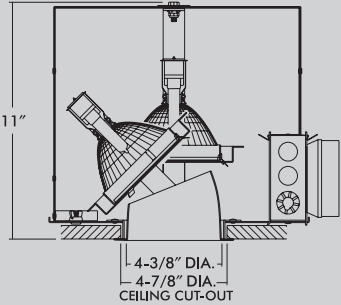
Beam Spread

Dist.	Footcandles		Dia.
	@ Center	@ Edge	
6'	395	198	2.0
7'	290	146	2.3
8'	222	112	2.6
9'	176	88	2.9
10'	142	71	3.3
11'	118	59	3.6
12'	99	50	3.9
13'	84	42	4.2
14'	73	36	4.6
15'	63	32	4.9

Candela Distribution



Beam edge is defined as 50% of maximum nadir candlepower.



Photographer Henning Jobst

T-4 Adjustable Accent Light

6" HA76

Product Numbers

Catalog #	Wattage	Cone Finish
HA76-20E[]-SACSF	20	Specular Clear Satin
HA76-39E[]-SACSF	39	Specular Clear Satin
HA76-70E[]-SACSF	70	Specular Clear Satin

[] Voltage designation required: 1=120V; 2=277V

Performance Data: HA76-39E-SACSF (Spot)

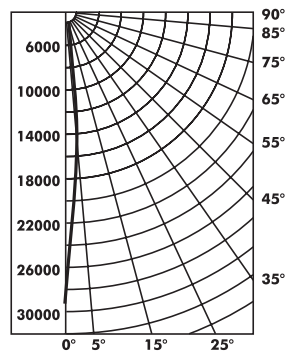
Lamp Type: 39W T-4.5 Metal Halide (CDM35/TC/830)
 Initial Lumens: 3300
 Max. CBCP: 29,479
 Beam Spread: 10.0°

Beam Spread

Dist.	Footcandles		Dia.
	@ Center	@ Edge	
6'	819	406	1.0
7'	602	298	1.2
8'	461	228	1.4
9'	364	180	1.6
10'	295	146	1.7
11'	244	121	1.9
12'	205	101	2.1
13'	174	86	2.3
14'	150	75	2.4
15'	131	65	2.6

Beam edge is defined as 50% of maximum nadir candlepower.

Candela Distribution



Performance Data: HA76-39E-SACSF/MFL (Medium Flood)

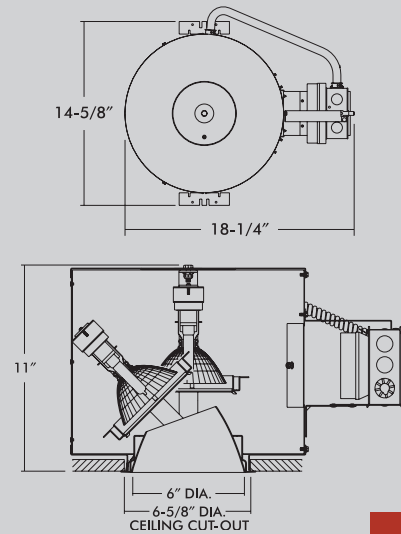
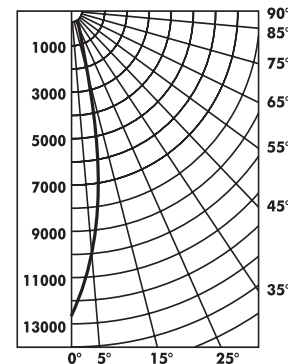
Lamp Type: 39W T-4.5 Metal Halide (CDM35/TC/830)
 Initial Lumens: 3300
 Max. CBCP: 12,749
 Beam Spread: 19.5°

Beam Spread

Dist.	Footcandles		Dia.
	@ Center	@ Edge	
6'	354	172	2.1
7'	260	126	2.4
8'	199	97	2.8
9'	157	76	3.1
10'	128	62	3.4
11'	105	51	3.8
12'	89	43	4.1
13'	75	37	4.5
14'	65	32	4.8
15'	57	28	5.2

Beam edge is defined as 50% of maximum nadir candlepower.

Candela Distribution



Photographer Chun Y. Lai

T-4 Downlight

4" HD74

Product Numbers

Catalog #	Wattage	Cone Finish
HD74-20E[]-SACSF	20	Specular Clear Satin
HD74-39E[]-SACSF	39	Specular Clear Satin
HD74-70E[]-SACSF	70	Specular Clear Satin

[] Voltage designation required: 1=120V; 2=277V

Performance Data: HD74-39E-SACSF

Lamp Type: 39W T-4.5 Metal Halide (CDM35/TC/830)

Initial Lumens: 3300

Luminaire Efficiency: 58%

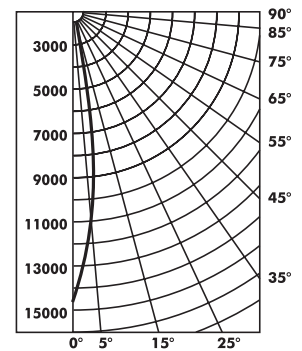
Spacing Ratio: .34

Photometric Data: HD74-39E-SACSF

Beam Spread (18.6° angle)

Dist.	Footcandles		Dia.
	@ Center	@ Edge	
6'	407	203	2.0
7'	299	149	2.3
8'	229	114	2.6
9'	181	90	2.9
10'	147	73	3.3
11'	121	61	3.6
12'	102	51	3.9
13'	87	43	4.2
14'	75	37	4.6
15'	65	33	4.9

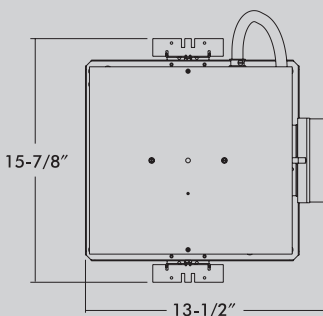
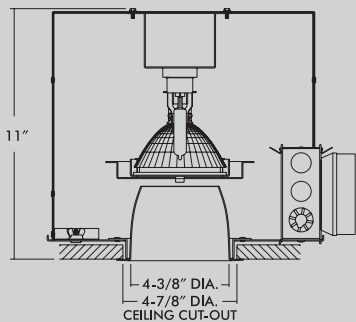
Candela Distribution



Beam edge is defined as 50% of maximum nadir candlepower.



Photographer Chun Y. Lai



Coefficients of Utilization

Average Initial Footcandles

RC	80		50		30	
	50	30	50	30	50	30
RW	69	69	64	64	62	62
0	69	64	64	62	62	59
2	64	62	61	60	59	59
4	60	58	58	57	57	56
6	57	55	56	55	56	54
8	55	53	54	53	54	52
10	53	51	53	51	52	51

Room Cavity Ratio

Luminaire Spacing	Room Cavity Ratio		
	RCR 1	RCR 4	RCR 8
6' x 6'	61	55	50
8' x 8'	34	31	28
10' x 10'	22	20	18

Footcandles are at work plane 30" above floor.

Zonal cavity method - Effective floor cavity reflectance = 0.20

T-4 Downlight

6" HD76

Product Numbers

Catalog #	Wattage	Cone Finish
HD76-20E[]-SACSF	20	Specular Clear Satin
HD76-39E[]-SACSF	39	Specular Clear Satin
HD76-70E[]-SACSF	70	Specular Clear Satin

[] Voltage designation required: 1=120V; 2=277V

Performance Data: HD76-39E-SACSF

Lamp Type: 39W T-4.5 Metal Halide (CDM35/TC/830)
 Initial Lumens: 3300
 Luminaire Efficiency: 66.3%
 Spacing Ratio: .34

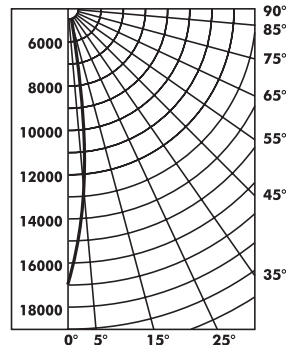
Photometric Data

Beam Spread (18.1° angle)

Dist.	Footcandles		Dia.
	@ Center	@ Edge	
6'	472	238	1.9
7'	347	175	2.2
8'	265	134	2.5
9'	210	106	2.9
10'	170	86	3.2
11'	140	71	3.5
12'	118	59	3.8
13'	101	51	4.1
14'	87	44	4.4
15'	76	38	4.8

Beam edge is defined as 50% of maximum nadir candlepower.

Candela Distribution



Coefficients of Utilization

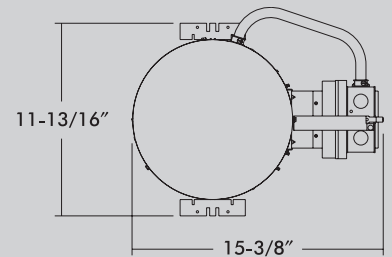
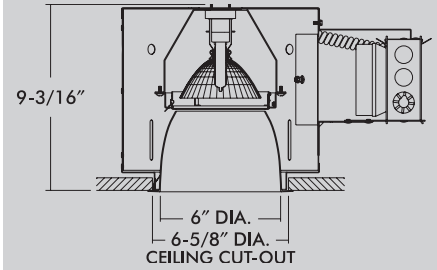
RC	80			50			30		
	50	30	50	30	50	30	50	30	
0	79	79	74	74	71	71	71	71	
2	73	71	70	69	68	67	67	67	
4	69	67	67	65	66	64	64	64	
6	66	63	64	63	64	62	62	62	
8	63	61	62	60	62	60	60	60	
10	61	59	60	59	60	58	58	58	

Zonal cavity method – Effective floor cavity reflectance = 0.20

Average Initial Footcandles

Luminaire Spacing	Room Cavity Ratio		
	RCR 1	RCR 4	RCR 8
6' x 6'	70	63	58
8' x 8'	39	36	32
10' x 10'	25	23	21

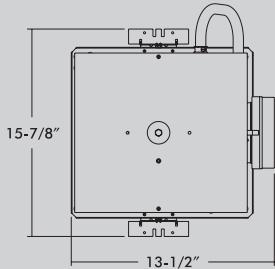
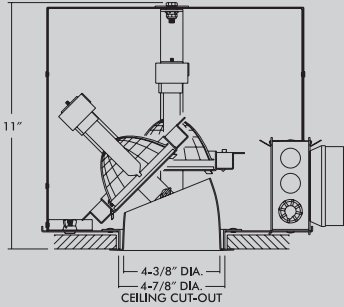
Footcandles are at work plane 30" above floor.



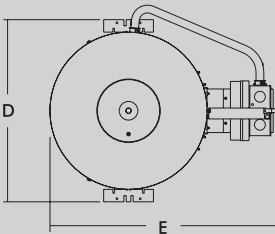
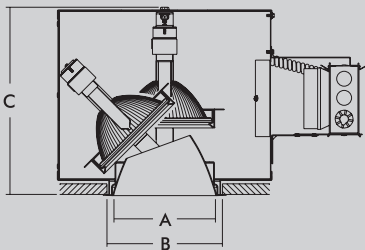
Photographer Paul Bardagjy

T-6 Adjustable Accent Light

HA54



HA56 & HA58



Dimensions

	HA56 39/70W	HA56 150W	HA58 39/70W	HA58 150W
A	6"	6"	7 ³ / ₈ "	7 ³ / ₈ "
B	6 ⁵ / ₈ "	6 ⁵ / ₈ "	8"	8"
C	11"	11"	11"	11"
D	15 ³ / ₈ "	16"	15 ³ / ₈ "	16"
E	18 ¹ / ₄ "	25"	18 ¹ / ₄ "	25"

4" HA54

Product Numbers

Catalog #	Wattage	Cone Finish
HA54-39E []-SACSF	39	Specular Clear Satin
HA54-70E []-SACSF	70	Specular Clear Satin

[] Voltage designation required: 1=120V; 2=277V

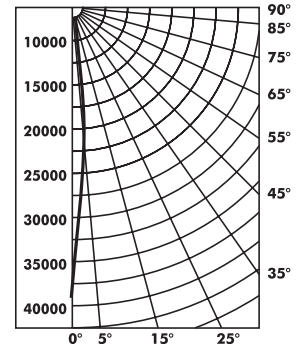
Performance Data: HA54-70E-SACSF (Spot)

Lamp Type: 70W T-6 Metal Halide (CDM70/T6/830)
 Initial Lumens: 6200
 Max. CBCP: 38,053
 Beam Spread: 11.4°

Beam Spread

Dist.	Footcandles		Dia.
	@ Center	@ Edge	
6'	1057	548	1.2
7'	777	403	1.4
8'	595	308	1.6
9'	470	244	1.8
10'	381	197	2.0
11'	315	163	2.2
12'	264	137	2.4
13'	225	117	2.6
14'	194	101	2.8
15'	169	88	3.0

Candela Distribution



Beam edge is defined as 50% of maximum nadir candlepower.

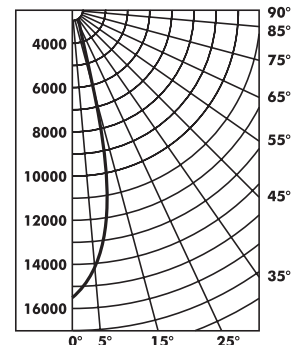
Performance Data: HA54-70E-SACSF/FL (Flood)

Lamp Type: 70W T-6 Metal Halide (CDM70/T6/942)
 Initial Lumens: 6200
 Max. CBCP: 15,397
 Beam Spread: 24.9°

Beam Spread

Dist.	Footcandles		Dia.
	@ Center	@ Edge	
6'	428	210	2.6
7'	314	154	3.1
8'	240	118	3.5
9'	190	93	4.0
10'	154	76	4.4
11'	127	63	4.9
12'	107	53	5.3
13'	91	45	5.7
14'	79	39	6.2
15'	68	34	6.6

Candela Distribution



Beam edge is defined as 50% of maximum nadir candlepower.

T-6 Adjustable Accent Light

6" HA56

Product Numbers

Catalog #	Wattage	Cone Finish
HA56-39E[]-SACSF	39	Specular Clear Satin
HA56-70E[]-SACSF	70	Specular Clear Satin
HA56-150E[]-SACSF	150	Specular Clear Satin

[] Voltage designation required: 1=120V; 2=277V

Performance Data: HA56-70E-SACSF (Spot)

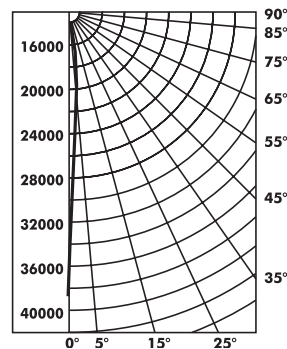
Lamp Type: 70W T-6 Metal Halide (CDM70/T6/830)
 Initial Lumens: 6200
 Max. CBCP: 38,249
 Beam Spread: 10.0°

Beam Spread

Dist.	Footcandles		Dia.
	@ Center	@ Edge	
6'	1063	546	1.1
7'	781	401	1.2
8'	598	307	1.4
9'	472	243	1.6
10'	383	196	1.8
11'	316	162	1.9
12'	266	136	2.1
13'	226	116	2.3
14'	195	100	2.5
15'	170	87	2.6

Beam edge is defined as 50% of maximum nadir candlepower.

Candela Distribution



8" HA58

Product Numbers

Catalog #	Wattage	Cone Finish
HA58-39E[]-SACSF	39	Specular Clear Satin
HA58-70E[]-SACSF	70	Specular Clear Satin
HA58-150E[]-SACSF	150	Specular Clear Satin

[] Voltage designation required: 1=120V; 2=277V

Performance Data: HA58-70E-SACSF (Spot)

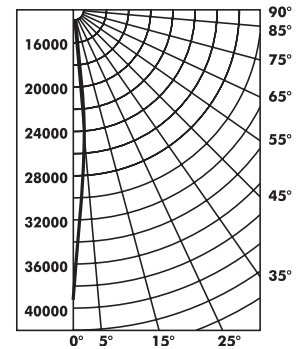
Lamp Type: 70W T-6 Metal Halide (CDM70W/T6/830)
 Initial Lumens: 6200
 Max. CBCP: 39,759
 Beam Spread: 11.7°

Beam Spread

Dist.	Footcandles		Dia.
	@ Center	@ Edge	
6'	1104	563	1.2
7'	811	414	1.4
8'	621	317	1.6
9'	491	250	1.8
10'	398	203	2.0
11'	329	168	2.3
12'	276	141	2.5
13'	235	120	2.7
14'	203	104	2.9
15'	177	90	3.1

Beam edge is defined as 50% of maximum nadir candlepower.

Candela Distribution



Performance Data: HA56-70E-SACSF/FL (Flood)

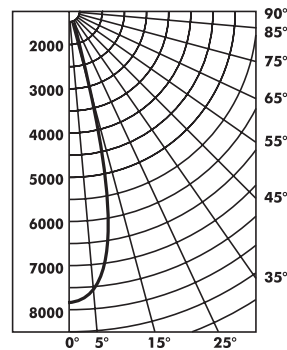
Lamp Type: 70W T-6 Metal Halide (CDM70/T6/830)
 Initial Lumens: 6200
 Max. CBCP: 7862
 Beam Spread: 27.0°

Beam Spread

Dist.	Footcandles		Dia.
	@ Center	@ Edge	
6'	218	105	2.9
7'	160	77	3.4
8'	123	59	3.8
9'	97	47	4.3
10'	79	38	4.8
11'	65	31	5.3
12'	55	26	5.8
13'	47	22	6.2
14'	40	19	6.7
15'	35	17	7.2

Beam edge is defined as 50% of maximum nadir candlepower.

Candela Distribution



Performance Data: HA58-70E-SACSF/FL (Flood)

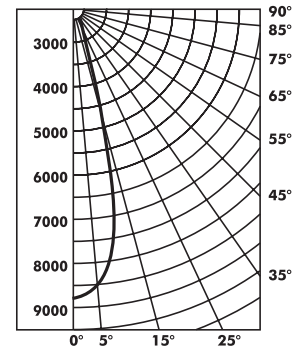
Lamp Type: 70W T-6 Metal Halide (CDM70W/T6/830)
 Initial Lumens: 6200
 Max. CBCP: 8802
 Beam Spread: 31.2°

Beam Spread

Dist.	Footcandles		Dia.
	@ Center	@ Edge	
6'	245	114	3.3
7'	180	84	3.9
8'	138	64	4.5
9'	109	51	5.0
10'	88	41	5.6
11'	73	34	6.1
12'	61	29	6.7
13'	52	24	7.3
14'	45	21	7.8
15'	39	18	8.4

Beam edge is defined as 50% of maximum nadir candlepower.

Candela Distribution



T-6 Downlight

4" HD54

Product Numbers

Catalog #	Wattage	Cone Finish
HD54-39E[]-SACSF	39	Specular Clear Satin
HD54-70E[]-SACSF	70	Specular Clear Satin

[] Voltage designation required: 1=120V; 2=277V

Performance Data: HD54-70E-SACSF

Lamp Type: 70W T-6 Metal Halide (CDM70W/T6/942)
 Initial Lumens: 6200
 Luminaire Efficiency: 60.0%
 Spacing Ratio: 0.53

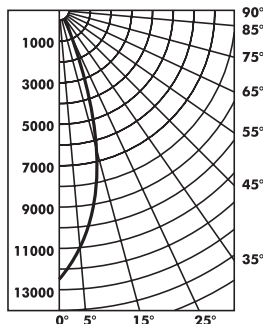
Photometric Data

Beam Spread (30.9° angle)

Dist.	Footcandles		Dia.
	@ Center	@ Edge	
6'	350	164	3.3
7'	257	120	3.9
8'	197	92	4.4
9'	155	73	5.0
10'	126	59	5.5
11'	104	49	6.1
12'	87	41	6.6
13'	75	35	7.2
14'	64	30	7.8
15'	56	26	8.3

Beam edge is defined as 50% of maximum nadir candlepower.

Candela Distribution



6" HD56

Product Numbers

Catalog #	Wattage	Cone Finish
HD56-39E[]-SACSF	39	Specular Clear Satin
HD56-70E[]-SACSF	70	Specular Clear Satin
HD56-150E[]-SACSF	150	Specular Clear Satin

[] Voltage designation required: 1=120V; 2=277V

Performance Data: HD56-70E-SACSF

Lamp Type: 70W T-6 Metal Halide (CDM70W/T6/942)
 Initial Lumens: 6,200
 Luminaire Efficiency: 45.1%
 Spacing Ratio: 0.37

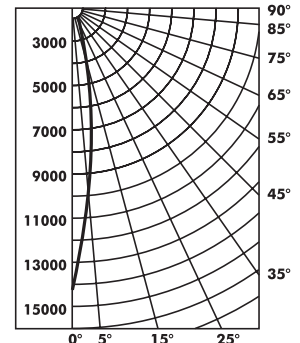
Photometric Data

Beam Spread (23.8° angle)

Dist.	Footcandles		Dia.
	@ Center	@ Edge	
6'	393	189	2.5
7'	289	139	3.0
8'	221	107	3.4
9'	175	84	3.8
10'	142	68	4.2
11'	117	56	4.6
12'	98	47	5.1
13'	84	40	5.5
14'	72	35	5.9
15'	63	30	6.3

Beam edge is defined as 50% of maximum nadir candlepower.

Candela Distribution



Coefficients of Utilization

Average Initial Footcandles

RC	80			50			30		
	RW	50	30	50	30	50	30	50	30
0	71	71	67	67	64	64	64	64	64
2	65	63	62	60	60	59	59	59	59
4	59	57	58	56	56	55	55	55	55
6	55	53	54	52	53	51	51	51	51
8	52	49	51	49	50	48	48	48	48
10	48	46	48	46	47	46	46	46	46

Zonal cavity method – Effective floor cavity reflectance = 0.20

Luminaire Spacing	Room Cavity Ratio		
	RCR 1	RCR 4	RCR 8
6' x 6'	117	102	90
8' x 8'	66	57	50
10' x 10'	42	37	32

Footcandles are at work plane 30" above floor.

Coefficients of Utilization

Average Initial Footcandles

RC	80			50			30		
	RW	50	30	50	30	50	30	50	30
0	54	54	50	50	48	48	48	48	48
2	49	47	46	45	45	44	44	44	44
4	45	43	43	42	43	42	42	42	42
6	42	40	41	39	40	39	39	39	39
8	39	38	39	37	38	37	37	37	37
10	37	35	37	35	37	35	35	35	35

Zonal cavity method – Effective floor cavity reflectance = 0.20

Luminaire Spacing	Room Cavity Ratio		
	RCR 1	RCR 4	RCR 8
6' x 6'	93	78	67
8' x 8'	53	44	38
10' x 10'	33	28	24

Footcandles are at work plane 30" above floor.

T-6 Downlight

8" HD58

Product Numbers

Catalog #	Wattage	Cone Finish
HD58-39E []-SACSF	39	Specular Clear Satin
HD58-70E []-SACSF	70	Specular Clear Satin
HD58-150E []-SACSF	150	Specular Clear Satin

[] Voltage designation required: 1=120V; 2=277V

Performance Data: HD58-70E-SACSF

Lamp Type: 70W T-6 Metal Halide (CDM70W/T6/942)
 Initial Lumens: 6200
 Luminaire Efficiency: 55.4%
 Spacing Ratio: 0.35

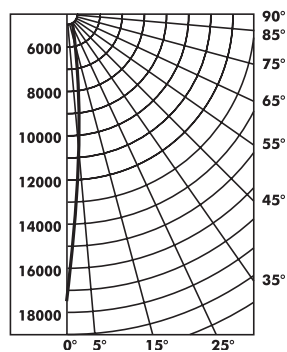
Photometric Data

Beam Spread (18.9° angle)

Dist.	Footcandles		Dia.
	@ Center	@ Edge	
6'	487	241	2.0
7'	358	177	2.3
8'	274	136	2.7
9'	216	107	3.0
10'	175	87	3.3
11'	145	72	3.7
12'	122	60	4.0
13'	103	51	4.3
14'	89	44	4.7
15'	78	39	5.0

Beam edge is defined as 50% of maximum nadir candlepower.

Candela Distribution



Coefficients of Utilization

RC	Room Cavity Ratio					
	80		50		30	
RW	50	30	50	30	50	30
0	66	66	62	62	59	59
2	60	58	57	56	56	55
4	55	53	53	52	52	51
6	51	49	50	49	50	48
8	48	46	45	43	45	43
10	46	44	46	44	46	44

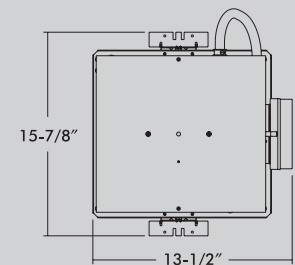
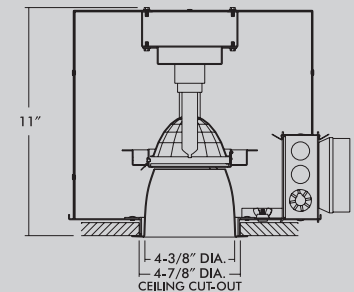
Zonal cavity method – Effective floor cavity reflectance = 0.20

Average Initial Footcandles

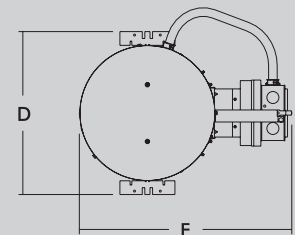
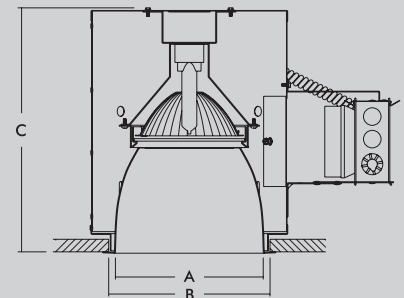
Luminaire Spacing	Room Cavity Ratio		
	RCR 1	RCR 4	RCR 8
6' x 6'	114	95	83
8' x 8'	64	53	47
10' x 10'	41	34	30

Footcandles are at work plane 30" above floor.

HD54



HD56 & HD58



Dimensions

	HD56 39/70W	HD56 150W	HD58 39/70W	HD58 150W
A	6"	6"	7 ³ / ₈ "	7 ³ / ₈ "
B	6 ⁵ / ₈ "	6 ⁵ / ₈ "	8"	8"
C	12 ¹ / ₈ "	12 ¹ / ₈ "	12 ¹ / ₈ "	12 ¹ / ₈ "
D	11 ⁷ / ₈ "	16"	11 ⁷ / ₈ "	16"
E	15 ¹ / ₂ "	25"	15 ¹ / ₂ "	25"

ED-17 Adjustable Accent Light (Enclosed)

8" HA18

Product Numbers

Catalog #	Wattage	Fixture Type*	Cone Finish
HA18-50E[]-SACSF	50	Enclosed	Specular Clear Satin
HA18-70E[]-SACSF	70	Enclosed	Specular Clear Satin
HA18-100E[]-SACSF	100	Enclosed	Specular Clear Satin
HA18-150E[]-SACSF	150	Enclosed	Specular Clear Satin

[] Voltage designation required: 1=120V; 2=277V

* Lamp shielding standard

Performance Data: HA18-100E-SACSF (Spot)

Lamp Type: 100W Clear ED-17 Metal Halide (CDM100/U/M)

Initial Lumens: 9300

Max. CBCP: 48,283

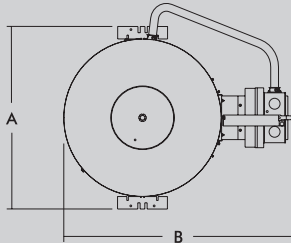
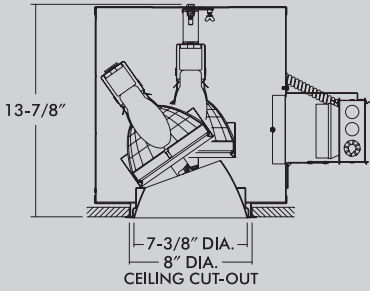
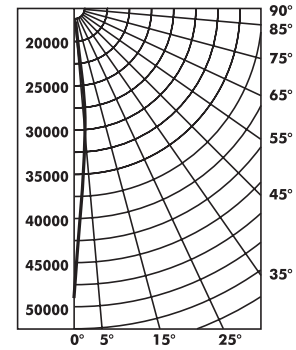
Beam Spread: 12.0°

Beam Spread

Dist.	Footcandles		Dia.
	@ Center	@ Edge	
6'	1341	684	1.3
7'	985	503	1.5
8'	754	385	1.7
9'	596	304	1.9
10'	483	246	2.1
11'	399	204	2.3
12'	335	171	2.5
13'	286	146	2.7
14'	246	126	2.9
15'	215	109	3.1

Beam edge is defined as 50% of maximum nadir candlepower.

Candela Distribution



Dimensions

	50/70W	100/150W
A	14 ⁵ / ₈ "	16"
B	18 ¹ / ₄ "	25"

Performance Data: HA18-100E-SACSF/MFL (Medium Flood)

Lamp Type: 100W Clear ED-17 Metal Halide (CDM100/U/M)

Initial Lumens: 9300

Max. CBCP: 21,895

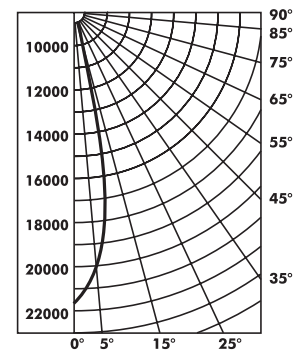
Beam Spread: 21.7°

Beam Spread

Dist.	Footcandles		Dia.
	@ Center	@ Edge	
6'	608	305	2.3
7'	447	224	2.7
8'	342	172	3.1
9'	270	136	3.4
10'	219	110	3.8
11'	181	91	4.2
12'	152	76	4.6
13'	130	65	5.0
14'	112	56	5.4
15'	97	49	5.7

Beam edge is defined as 50% of maximum nadir candlepower.

Candela Distribution



ED-17 Adjustable Accent Light (Open)

8" HA38

Product Numbers

Catalog #	Wattage	Fixture Type*	Cone Finish
HA38-50E[]-SACSF	50	Open	Specular Clear Satin
HA38-70E[]-SACSF	70	Open	Specular Clear Satin
HA38-100E[]-SACSF	100	Open	Specular Clear Satin
HA38-150E[]-SACSF	150	Open	Specular Clear Satin

[] Voltage designation required: 1=120V; 2=277V

* No shielding required

Performance Data: HA38-100E-SACSF (Spot)

Lamp Type: 100W Clear ED-17 Metal Halide (MHC100/U/MP/3K)

Initial Lumens: 8800

Max. CBCP: 62,260

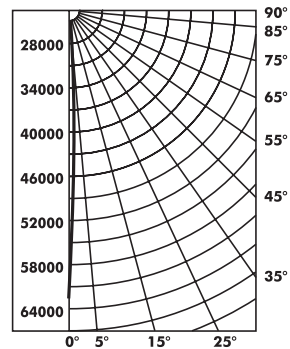
Beam Spread: 9.3°

Beam Spread

Dist.	Footcandles		Dia.
	@ Center	@ Edge	
6'	1729	891	1.0
7'	1271	655	1.1
8'	973	501	1.3
9'	769	396	1.5
10'	623	321	1.6
11'	515	265	1.8
12'	432	223	1.9
13'	368	190	2.1
14'	318	164	2.3
15'	277	143	2.4

Beam edge is defined as 50% of maximum nadir candlepower.

Candela Distribution



Photographer Paul Schliemann

Performance Data: HA38-100E-SACSF/MFL (Medium Flood)

Lamp Type: 100W Clear ED-17 Metal Halide (MHC100/U/MP/3K)

Initial Lumens: 8800

Max. CBCP: 24,559

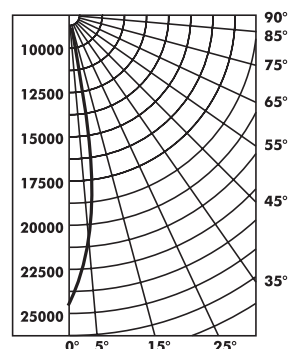
Beam Spread: 19.4°

Beam Spread

Dist.	Footcandles		Dia.
	@ Center	@ Edge	
6'	682	345	2.1
7'	501	254	2.4
8'	384	194	2.7
9'	303	154	3.1
10'	246	124	3.4
11'	203	103	3.8
12'	171	86	4.1
13'	145	74	4.4
14'	125	63	4.8
15'	109	55	5.1

Beam edge is defined as 50% of maximum nadir candlepower.

Candela Distribution



ED-17 Downlight (Enclosed)

8" HD18

Product Numbers

Catalog #	Wattage	Fixture Type*	Cone Finish
HD18-50E[]-SACSF	50	Enclosed	Specular Clear Satin
HD18-70E[]-SACSF	70	Enclosed	Specular Clear Satin
HD18-100E[]-SACSF	100	Enclosed	Specular Clear Satin
HD18-150E[]-SACSF	150	Enclosed	Specular Clear Satin

[] Voltage designation required: 1=120V; 2=277V

* Lamp shielding standard

Performance Data: HD18-100E-SACSF

Lamp Type: 100W Clear ED-17 Metal Halide (CDM100/U/M)

Initial Lumens: 9300

Luminaire Efficiency: 46.6%

Spacing Ratio: 0.36

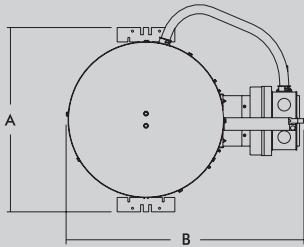
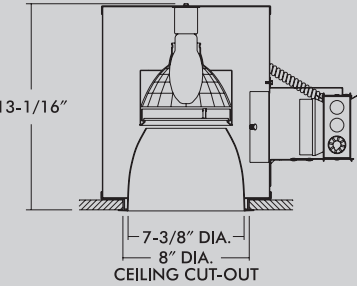
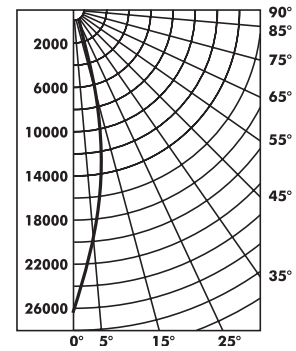
Photometric Data

Beam Spread (21.3° angle)

Dist.	Footcandles		Dia.
	@ Center	@ Edge	
6'	725	347	2.3
7'	533	255	2.6
8'	408	195	3.0
9'	322	154	3.4
10'	261	125	3.8
11'	216	103	4.1
12'	181	87	4.5
13'	154	74	4.9
14'	133	64	5.3
15'	116	56	5.6

Beam edge is defined as 50% of maximum nadir candlepower.

Candela Distribution



Dimensions

	50/70W	100/150W
A	12 ¹³ / ₁₆ "	16"
B	16 ³ / ₈ "	25"

Coefficients of Utilization

RC	80						50						30																													
	50	30	50	30	50	30	50	30	50	30	50	30	50	30	50	30																										
RW	0	55	55	52	52	50	50	2	51	49	49	48	47	46	4	47	46	46	45	45	44	6	45	43	44	42	43	42	8	42	41	42	40	41	40	10	40	39	40	39	40	38

Zonal cavity method - Effective floor cavity reflectance = 0.20

Average Initial Footcandles

Luminaire Spacing	Room Cavity Ratio		
	RCR 1	RCR 4	RCR 8
6' x 6'	137	121	109
8' x 8'	77	68	61
10' x 10'	49	44	39

Footcandles are at work plane 30" above floor.

ED-17 Downlight (Open)

8" HD38

Product Numbers

Catalog #	Wattage	Fixture Type*	Cone Finish
HD38-50E[]-SACSF	50	Open	Specular Clear Satin
HD38-70E[]-SACSF	70	Open	Specular Clear Satin
HD38-100E[]-SACSF	100	Open	Specular Clear Satin
HD38-150E[]-SACSF	150	Open	Specular Clear Satin

[] Voltage designation required: 1=120V; 2=277V

* No shielding required

Performance Data: HD38-100E-SACSF

Lamp Type: 100W Clear ED-17 Metal Halide (MHC100/U/MP/3K)

Initial Lumens: 8800

Luminaire Efficiency: 46.6%

Spacing Ratio: 0.35

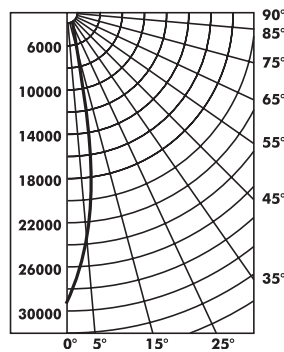
Photometric Data

Beam Spread (20.0° angle)

Dist.	Footcandles		Dia.
	@ Center	@ Edge	
6'	807	390	2.1
7'	593	287	2.5
8'	454	219	2.8
9'	359	173	3.2
10'	290	140	3.5
11'	240	116	3.9
12'	202	98	4.2
13'	172	83	4.6
14'	148	72	4.9
15'	129	62	5.3

Beam edge is defined as 50% of maximum nadir candlepower.

Candela Distribution



Coefficients of Utilization

RC	80			50			30		
	RW	50	30	50	30	50	30	50	30
0	55	55	52	52	50	50	50	50	50
2	51	50	49	48	48	48	47	47	47
4	48	46	47	45	46	45	45	45	45
6	46	44	45	43	44	43	43	43	43
8	44	42	43	42	43	41	41	41	41
10	42	41	42	40	41	40	40	40	40

Zonal cavity method -- Effective floor cavity reflectance = 0.20

Average Initial Footcandles

Luminaire Spacing	Room Cavity Ratio		
	RCR 1	RCR 4	RCR 8
6' x 6'	130	117	108
8' x 8'	73	66	61
10' x 10'	47	42	39

Footcandles are at work plane 30" above floor.

PAR Adjustable Accent Light

4" HAB4

Product Numbers

Catalog #	Wattage	Lamp	Cone Finish
HAB4-39E[]-SACSF	39	PAR20/30	Specular Clear Satin
HAB4-70E[]-SACSF	70	PAR30	Specular Clear Satin

[] Voltage designation required: 1=120V; 2=277V

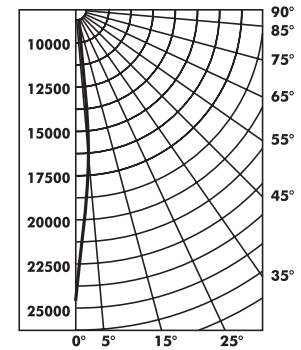
Performance Data: HAB4-39E-SACSF (Spot)

Lamp Type: 39W PAR20 Spot Metal Halide (CDM35/PAR20/M/SP)
 Initial Lumens: 2300
 Max. CBCP: 24,775
 Beam Spread: 9.3°

Beam Spread

Dist.	Footcandles		Dia.
	@ Center	@ Edge	
6'	688	343	1.0
7'	506	252	1.1
8'	387	193	1.3
9'	306	153	1.5
10'	248	124	1.6
11'	205	102	1.8
12'	172	86	1.9
13'	147	73	2.1
14'	126	63	2.3
15'	110	55	2.4

Candela Distribution



Beam edge is defined as 50% of maximum nadir candlepower.

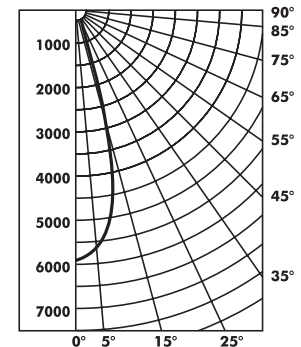
Performance Data: HAB4-39E-SACSF (Flood)

Lamp Type: 39W PAR20 Flood Metal Halide (CDM35/PAR20/M/FL)
 Initial Lumens: 2300
 Max. CBCP: 5911
 Beam Spread: 28.3°

Beam Spread

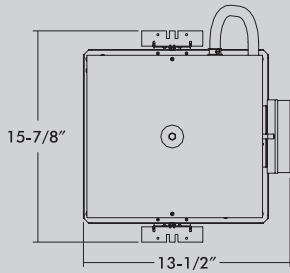
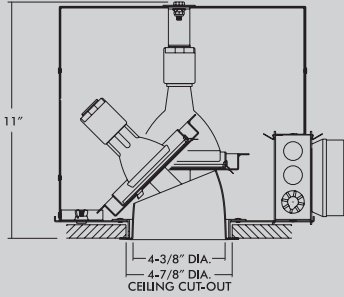
Dist.	Footcandles		Dia.
	@ Center	@ Edge	
6'	164	78	3.0
7'	121	57	3.5
8'	92	44	4.0
9'	73	35	4.5
10'	59	28	5.0
11'	49	23	5.6
12'	41	20	6.1
13'	35	17	6.6
14'	30	14	7.1
15'	26	13	7.6

Candela Distribution

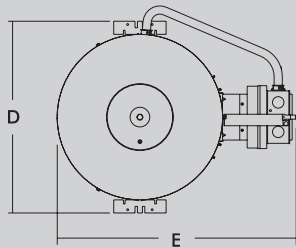
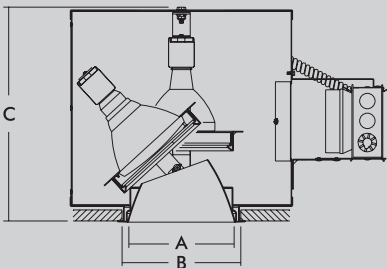


Beam edge is defined as 50% of maximum nadir candlepower.

HAB4



HAB6 & HAB8



Dimensions

	HAB6 39/70W	HAB6 100/150W	HAB8 39/70W	HAB8 100/150W
A	6"	6"	7 ³ / ₈ "	7 ³ / ₈ "
B	6 ⁵ / ₈ "	6 ⁵ / ₈ "	8"	8"
C	12 ¹ / ₄ "	12 ¹ / ₄ "	12 ¹ / ₄ "	12 ¹ / ₄ "
D	14 ¹ / ₂ "	16"	14 ¹ / ₂ "	16"
E	18 ¹ / ₄ "	25"	18 ¹ / ₄ "	25"

PAR Adjustable Accent Light

6" HAB6

Product Numbers

Catalog #	Wattage	Lamp	Cone Finish
HAB6-39E[]-SACSF	39	PAR30	Specular Clear Satin
HAB6-70E[]-SACSF	70	PAR30/38	Specular Clear Satin
HAB6-100E[]-SACSF	100	PAR38	Specular Clear Satin
HAB6-150E[]-SACSF	150	PAR38	Specular Clear Satin

[] Voltage designation required: 1=120V; 2=277V

Performance Data: HAB6-70E-SACSF (Spot)

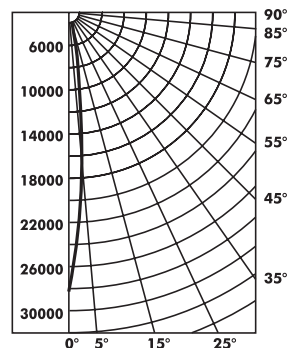
Lamp Type: 70W PAR38 Flood Metal Halide (CDM70/PAR38/SP/3K)
 Initial Lumens: 4800
 Max. CBCP: 28,220
 Beam Spread: 14.0°

Beam Spread

Dist.	Footcandles		Dia.
	@ Center	@ Edge	
6'	784	405	1.5
7'	576	298	1.7
8'	441	228	2.0
9'	348	180	2.2
10'	282	146	2.4
11'	233	121	2.7
12'	196	101	2.9
13'	167	86	3.2
14'	144	74	3.4
15'	125	65	3.7

Beam edge is defined as 50% of maximum nadir candlepower.

Candela Distribution



8" HAB8

Product Numbers

Catalog #	Wattage	Lamp	Cone Finish
HAB8-39E[]-SACSF	39	PAR30	Specular Clear Satin
HAB8-70E[]-SACSF	70	PAR30/38	Specular Clear Satin
HAB8-100E[]-SACSF	100	PAR38	Specular Clear Satin
HAB8-150E[]-SACSF	150	PAR38	Specular Clear Satin

[] Voltage designation required: 1=120V; 2=277V

Performance Data: HAB8-100E-SACSF (Spot)

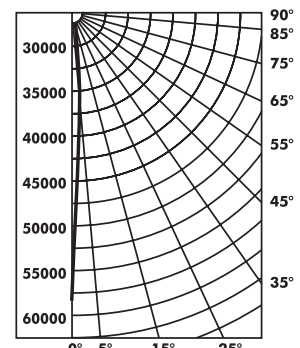
Lamp Type: 100W PAR38 Spot Metal Halide (CDM100/PAR38/SP/3K)
 Initial Lumens: 6800
 Max. CBCP: 58,495
 Beam Spread: 12.0°

Beam Spread

Dist.	Footcandles		Dia.
	@ Center	@ Edge	
6'	1625	833	1.3
7'	1194	612	1.5
8'	914	469	1.7
9'	722	370	1.9
10'	585	300	2.1
11'	483	248	2.3
12'	406	208	2.5
13'	346	178	2.7
14'	298	153	3.0
15'	260	133	3.2

Beam edge is defined as 50% of maximum nadir candlepower.

Candela Distribution



Performance Data: HAB6-70E-SACSF (Flood)

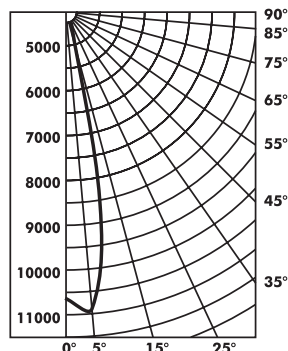
Lamp Type: 70W PAR38 Flood Metal Halide (CDM70/PAR38/FL/3K)
 Initial Lumens: 4800
 Max. CBCP: 10,610
 Beam Spread: 27.5°

Beam Spread

Dist.	Footcandles		Dia.
	@ Center	@ Edge	
6'	295	143	2.9
7'	217	105	3.4
8'	166	81	3.9
9'	131	64	4.4
10'	106	52	4.9
11'	88	43	5.4
12'	74	36	5.9
13'	63	31	6.4
14'	54	26	6.9
15'	47	23	7.3

Beam edge is defined as 50% of maximum nadir candlepower.

Candela Distribution



Performance Data: HAB8-100E-SACSF (Flood)

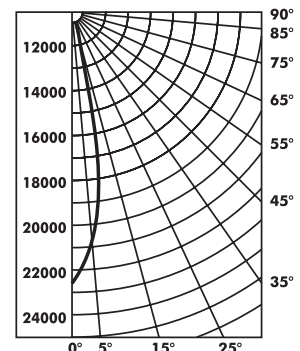
Lamp Type: 100W PAR38 Flood Metal Halide (CDM100/PAR38/FL/3K)
 Initial Lumens: 6800
 Max. CBCP: 22,703
 Beam Spread: 24.1°

Beam Spread

Dist.	Footcandles		Dia.
	@ Center	@ Edge	
6'	631	312	2.6
7'	463	229	3.0
8'	355	176	3.4
9'	280	139	3.8
10'	227	112	4.3
11'	188	93	4.7
12'	158	78	5.1
13'	134	67	5.6
14'	116	57	6.0
15'	101	50	6.4

Beam edge is defined as 50% of maximum nadir candlepower.

Candela Distribution



PAR Downlight

4" HDB4

Product Numbers

Catalog #	Wattage	Lamp	Cone Finish
HDB4-39E[]-SACSF	39	PAR20/30	Specular Clear Satin
HDB4-70E[]-SACSF	70	PAR30	Specular Clear Satin

[] Voltage designation required: 1=120V; 2=277V

Performance Data: HDB4-39E-SACSF (Flood)

Lamp Type: 39W PAR20 Flood Metal Halide (CDM35/PAR20/M/FL)
 Initial Lumens: 2300
 Luminaire Efficiency: 81.0%
 Spacing Ratio: 0.46

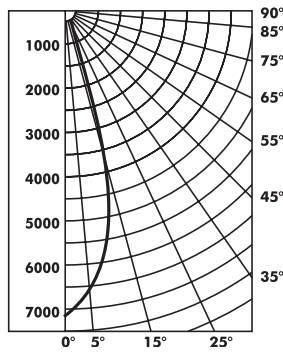
Photometric Data

Beam Spread (27.5° angle)

Dist.	Footcandles		Dia.
	@ Center	@ Edge	
6'	199	95	2.9
7'	146	70	3.4
8'	112	53	3.9
9'	88	42	4.4
10'	72	34	4.9
11'	59	28	5.4
12'	50	24	5.9
13'	42	20	6.4
14'	37	17	6.9
15'	32	15	7.4

Beam edge is defined as 50% of maximum nadir candlepower.

Candela Distribution



6" HDB6

Product Numbers

Catalog #	Wattage	Lamp	Cone Finish
HDB6-39E[]-SACSF	39	PAR30	Specular Clear Satin
HDB6-70E[]-SACSF	70	PAR30/38	Specular Clear Satin
HDB6-100E[]-SACSF	100	PAR38	Specular Clear Satin
HDB6-150E[]-SACSF	150	PAR38	Specular Clear Satin

[] Voltage designation required: 1=120V; 2=277V

Performance Data: HDB6-70E-SACSF (Flood)

Lamp Type: 70W PAR30 Flood Metal Halide (CDM70/PAR30/M/FL)
 Initial Lumens: 4850
 Luminaire Efficiency: 92.2%
 Spacing Ratio: 0.64

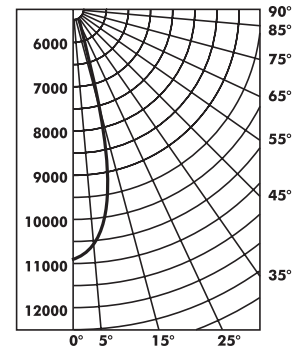
Photometric Data

Beam Spread (37.8° angle)

Dist.	Footcandles		Dia.
	@ Center	@ Edge	
6'	301	134	4.1
7'	221	98	4.8
8'	170	75	5.5
9'	134	59	6.2
10'	109	48	6.8
11'	90	40	7.5
12'	75	33	8.2
13'	64	29	8.9
14'	55	25	9.6
15'	48	21	10.3

Beam edge is defined as 50% of maximum nadir candlepower.

Candela Distribution



Coefficients of Utilization

RC	Room Cavity Ratio					
	80	50	30	80	50	30
RW	50	30	50	30	50	30
0	96	96	90	90	86	86
2	87	85	83	82	81	80
4	80	77	78	75	76	74
6	75	72	73	71	72	70
8	70	67	69	66	68	66
10	66	63	66	63	65	63

Zonal cavity method - Effective floor cavity reflectance = 0.20

Average Initial Footcandles

Luminaire Spacing	Room Cavity Ratio		
	RCR 1	RCR 4	RCR 8
6' x 6'	58	51	45
8' x 8'	33	29	25
10' x 10'	21	18	16

Footcandles are at work plane 30" above floor.

Coefficients of Utilization

RC	Room Cavity Ratio					
	80	50	30	80	50	30
RW	50	30	50	30	50	30
0	1.10	1.10	1.02	1.02	98	98
2	98	95	94	92	91	90
4	89	86	87	84	85	82
6	82	78	80	77	79	76
8	76	72	75	71	74	71
10	71	67	70	66	69	66

Zonal cavity method - Effective floor cavity reflectance = 0.20

Average Initial Footcandles

Luminaire Spacing	Room Cavity Ratio		
	RCR 1	RCR 4	RCR 8
6' x 6'	140	120	102
8' x 8'	79	67	58
10' x 10'	50	43	37

Footcandles are at work plane 30" above floor.

PAR Downlight

8" HDB8

Product Numbers

Catalog #	Wattage	Lamp	Cone Finish
HDB8-39E[]-SACSF	39	PAR30	Specular Clear Satin
HDB8-70E[]-SACSF	70	PAR30/38	Specular Clear Satin
HDB8-100E[]-SACSF	100	PAR38	Specular Clear Satin
HDB8-150E[]-SACSF	150	PAR38	Specular Clear Satin

[] Voltage designation required: 1=120V; 2=277V

Performance Data: HDB8-100E-SACSF (Flood)

Lamp Type: 100W PAR38 Flood Metal Halide
 (CDM100/PAR38/FL/3K)
 Initial Lumens: 6800
 Luminaire Efficiency: 85.0%
 Spacing Ratio: 0.40

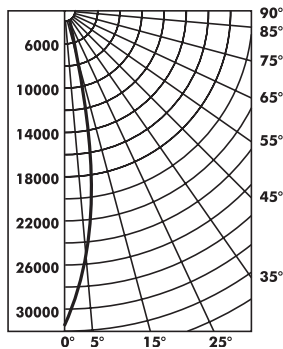
Photometric Data

Beam Spread (21.6° angle)

Dist.	Footcandles		Dia.
	@ Center	@ Edge	
6'	846	423	2.3
7'	622	311	2.7
8'	476	238	3.0
9'	376	188	3.4
10'	305	152	3.8
11'	252	126	4.2
12'	212	106	4.6
13'	180	90	5.0
14'	155	78	5.3
15'	135	68	5.7

Beam edge is defined as 50% of maximum nadir candlepower.

Candela Distribution



Coefficients of Utilization

RC	80			50			30		
	RW	50	30	50	30	50	30	50	30
0	1.01	1.01	94	90	94	90			
2	93	90	89	87	86	85			
4	86	83	84	81	82	80			
6	81	78	80	77	79	77			
8	77	74	76	74	75	73			
10	74	71	73	70	73	70			

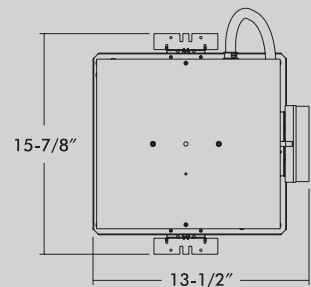
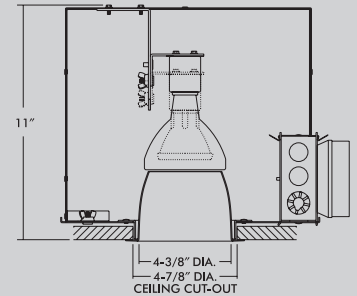
Zonal cavity method - Effective floor cavity reflectance = 0.20

Average Initial Footcandles

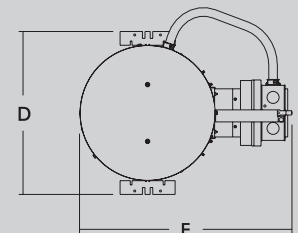
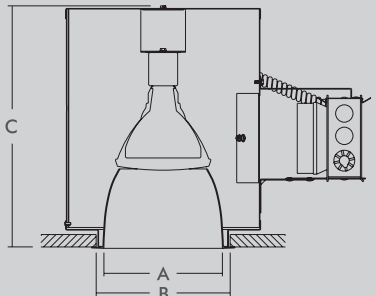
Luminaire Spacing	Room Cavity Ratio		
	RCR 1	RCR 4	RCR 8
6' x 6'	181	162	145
8' x 8'	102	91	82
10' x 10'	65	58	52

Footcandles are at work plane 30" above floor.

HDB4



HDB6 & HDB8



Dimensions

	HDB6 39/70W	HDB6 100/150W	HDB8 39/70W	HDB8 100/150W
A	6"	6"	7 ³ / ₈ "	7 ³ / ₈ "
B	6 ⁵ / ₈ "	6 ⁵ / ₈ "	8"	8"
C	12 ¹ / ₈ "	12 ¹ / ₈ "	12 ¹ / ₈ "	12 ¹ / ₈ "
D	11 ⁷ / ₈ "	16"	11 ⁷ / ₈ "	16"
E	15 ¹ / ₂ "	25"	15 ¹ / ₂ "	25"



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