

ENVIRONMENTALLY FRIENDLY, ENERGY EFFICIENT

- Black Body Dimming duplicates halogen dimming, offering a soft, natural, warm glow as light levels are reduced
- CCT "warms" from 2700K to 1800K, while staying on the Black Body Locus, when dimming
- Comparable light output to 26W, 32W, 42W and 2x26W CFL while consuming 11, 15, 26 and 34 watts.
- No harmful ultraviolet or infrared wavelengths • No lead or mercury

PRODUCT SPECIFICATIONS

OPTICS

• **Cone:** Clear specular faceted scoop reflector distributes light with high precision on computer optimized outer kicker reflector to optimize uniformity on the wall horizontally and from floor to ceiling • Deep regression of source produces a very low glare system on room side with 40° cut-off to lamp and lamp image • Lensed mixing chamber conceals the LEDs to produce uniform aperture luminance • Self-flanged or Flangeless, clear Alzak® (CD) cone • Alzak® cone with low iridescent finish is standard • Others Alzak finishes are available; see trim options

Flangeless: Must be used with IFMA6 accessory

ELECTRICAL

• **LED Light Engine:** Proprietary micro-processor controlled light engine duplicates dimming performance of halogen light source • Natural white light on the Planckian curve • 2700K color temperature at full lumen output • 90+ CRI

• **Driver:** Power factor >0.9 • Dimming down to 5% • Dimmable using 0-10V protocol (2000, 3000 lumen only) and Triac dimming (800, 1200 lumen, 120V only)

• **Life:** Rated for 50,000 hours at 70% lumen maintenance

MECHANICAL

• **Housing:** Heavy gauge cold rolled steel with black finish • Universal housing design installs in suspended grid, plaster or drywall • Integral cast aluminum heat sink conducts heat away from LED light engine • Light engine and driver are accessible from above and below ceiling and can be upgraded to accommodate future technology improvements.

• **Mounting Frame:** Heavy gauge steel lower housing ring with factory installed spring steel friction clips securely hold flanged cones in ceiling • Integrated torsion springs to hold flangeless cone in ceiling • Accommodates ceilings up to 3/4" thick • For thicker ceilings; consult factory

• **Mounting Bracket:** Mounting brackets have 3" vertical adjustment and accept proprietary Tru-Lock bar hangers, 1-1/2" C-channel and flat linear bars (ordered as accessories) or 1/2" EMT, 3/4" and 1-1/2" lathing channel (by others) • One-piece Tru-Lock bar hangers have integral T-bar locking screws and alignment notches for locating and locking fixture in the center or 1/4 tile increments

• **Junction Box:** Junction box rated for eight No. 12 AWG 90° C branch circuit conductors (4-in, 4-out)

Flangeless Adapter (FM Option with IFMA accessory): Allows drywall to be finished flush with cone flange

LABELS AND LISTINGS

- UL listed for feed through and damp locations • I.B.E.W. Union made • Wet Location listing available, see reflector ordering options • EMI complies with FCC 47, Part 15, Class A
- UL and cUL, RoHS compliant • ARRA compliant

Warranty-5YR: 5-year limited warranty. Complete warranty terms located at:

http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Specifications subject to change without notice.

K13.1.24

indy

DESIGNER SERIES BLACK BODY DIMMING 6" 800 to 3000 LUMEN LED ROUND ARCHITECTURAL WALLWASH OPEN APERTURE SD6 SERIES

Type	Cat. No.
_____	_____
Project: _____	
Notes: _____	

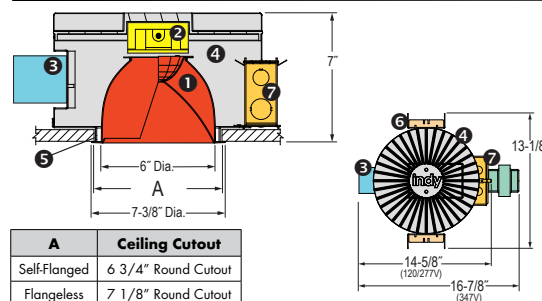


Self-Flanged

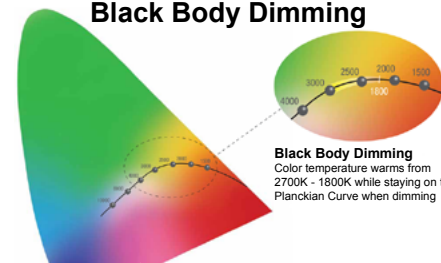


Flangeless

DIMENSIONS



Black Body Dimming



Black Body Dimming
Color temperature warms from 2700K - 1800K while staying on the Planckian Curve when dimming

Black body dimming fixtures perfectly emulate incandescent dimming, warming from 2700K - 1800CCT while staying on the Planckian Curve and maintaining high CRI and R9 values throughout dimming range.

ORDERING INFORMATION: Complete Catalog # Example Includes (Rough-In, option, reflector, accessory): SD6 20LM BBD 277 G4 90CRI ZT F AW CS PF HBTL

ROUGH-IN							REFLECTOR *												
SERIES	LIGHT ENGINE LUMENS		COLOR TEMP.	VOLTAGE	GENERATION	CRI	DRIVER	ROUGH-IN OPTIONS		TRIM STYLE	FINISH			TRIM OPTIONS		MOUNTING			
SD6																			
SD6 6" Designer Series Round New Construction Downlight See mounting for Flangeless	• 08LM	800 Lumens	BBD Black Body Dimming	120	G4 Generation 4	90CRI 90+ CRI	TD	Triac Dimming (08LM, 12LM)	F	Fuse and Fuse Holder	AW Architectural Wall Wash	BD	Black Diffuse	GD	Gold Diffuse	PF	White Flange	Blank Flanged (must be ordered with IFMA6 accessory)	
	• 12LM	1200 Lumens		120 Volt			ZT	0-10V Dimming (20LM, 30LM)	CP	Chicago Plenum		BS	Black Specular	GS	Gold Specular	WET	Wet Location		+ FM Flangeless
	• 20LM	2000 Lumens		277			BP	120/277V Emergency Battery Pack w/Remote Test Switch (Not compatible with CP option)	BZD	Bronze Diffuse		PTD	Pewter Diffuse	WTS	Wheat Specular				
	• 30LM	3000 Lumens		277Volt			CD	Clear Diffuse	WH	White									
	• 120V only		347	347 Volt								CS	Clear Specular	WTD	Wheat Diffuse				
ACCESSORIES																			
ACCESSORY OPTIONS																			
HB28	28" C-Channel Bar Hangers, Pair			IFMA6		6" Round flangeless adapter for drywall ceilings (Required)													
HB52	52" C-Channel Bar Hangers, Pair			INSA6/XX		6" Sloped Ceiling Adapter - Angle must be specified when ordering: XX = 05/10/15/20/25/30													
HBTL	25" Tru-Lock Grid Ceiling Bar Hangers, Pair																		

* To order reflector separately, use series and reflector option values. Ex: SD6 AW CS PF

+ To order flangeless Rough-In separately, add FM to end of part number. FM must be applied to both housing and trim part numbers.

ENGINEERING DATA (347V available, consult factory)

Voltage	120V				277V			
Fixture Lumens	850	1250	2000	3000	850	1250	2000	3000
CCT	2700K				2700K			
Current	0.093	0.129	0.216	0.285	-	-	0.101	0.128
Input Wattage	11.0	15.3	25.6	33.9	-	-	26.0	34.0
Input Frequency	50/60Hz				50/60Hz			
THD%	16.06	13.59	17.53	14.61	-	-	23.73	20.5
Power Factor	0.976	0.987	0.984	0.988	-	-	0.928	0.953

PERFORMANCE DATA / LUMINAIRES SPACED 2' FROM WALL

Catalog Number: SD6 30LM BBD MVOLT G4 90CRI ZT; SD6 AW CSS

Spread: Single Wall

Single Unit						Lamp	Multiple Units On 2' Centers*			Multiple Units On 3' Centers*			Multiple Units On 4' Centers*		
Lateral Distance From Fixture 2' From Wall						LMH020-3000-27G9-00000SS 2700K	Spaced 2' From Wall			Spaced 2' From Wall			Spaced 2' From Wall		
0'	1'	2'	3'	4'	5'	Distance From Ceiling	CL	CL		CL	CL		CL	CL	
17	12	5	2	1	1	1'	27	26	27	21	16	21	19	9	19
29	20	9	4	3	2	2'	50	49	50	37	31	37	33	19	33
24	19	10	5	3	2	3'	47	47	47	34	32	34	29	21	29
17	14	9	5	3	3	4'	38	38	38	27	27	27	22	19	22
12	10	8	5	3	3	5'	31	31	31	22	22	22	17	17	17
9	8	6	5	3	3	6'	25	25	25	18	18	18	14	14	14
7	6	5	4	3	3	7'	21	21	21	16	15	16	12	12	12
6	5	4	4	3	2	8'	18	18	18	14	13	14	11	10	11
4	4	3	3	2	2	9'	14	14	14	11	11	11	9	8	9

LUMEN MULTIPLIER:
 2000 X .67
 1250 X .42
 850 X .28

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Catalog Number: SD6 30LM BBD MVOLT G4 90CRI ZT; SD6 AW CSS

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Single Unit						Lamp	Multiple Units On 2' Centers*			Multiple Units On 3' Centers*			Multiple Units On 4' Centers*		
Lateral Distance From Fixture 3' From Wall						LMH020-3000-27G9-00000SS 2700K	Spaced 3' From Wall			Spaced 3' From Wall			Spaced 3' From Wall		
0'	1'	2'	3'	4'	5'	Distance From Ceiling	CL	CL		CL	CL		CL	CL	
6	5	3	2	2	1	1'	10	9	10	8	7	8	7	3	7
13	11	7	4	3	2	2'	21	20	21	18	15	18	15	7	15
14	12	8	5	3	3	3'	25	24	25	20	18	20	16	9	16
13	11	8	6	4	3	4'	24	24	24	19	18	19	15	10	15
11	9	7	5	4	3	5'	21	21	21	17	17	17	13	10	13
9	8	6	5	4	3	6'	19	19	19	15	15	15	11	9	11
7	7	6	5	4	3	7'	17	17	17	13	14	13	10	9	10
6	5	5	4	3	3	8'	15	15	15	12	12	12	8	8	8
5	4	4	3	3	2	9'	12	12	12	10	10	10	7	6	7

LUMEN MULTIPLIER:
 2000 X .67
 1250 X .42
 850 X .28

*Based on minimum of five luminaires. Reflectances: 80, 50, 20. Values are rounded to nearest whole footcandle.

PERFORMANCE DATA / LUMINAIRES SPACED 2' FROM WALL

Catalog Number: SD6 30LM BBD MVOLT G4 90CRI ZT FM; SD6 AW CSS FM

Spread: Single Wall

Single Unit	Lamp	Multiple Units On 2' Centers*		Multiple Units On 3' Centers*		Multiple Units On 4' Centers*	
Lateral Distance From Fixture 2' From Wall	LMH020-3000-27G9-00000SS 2700K	Spaced 2' From Wall		Spaced 2' From Wall		Spaced 2' From Wall	
0' 1' 2' 3' 4' 5'	Distance From Ceiling	CL	CL	CL	CL	CL	CL
17 12 5 2 1 1	1'	27	26	27	21	16	21
29 20 9 4 3 2	2'	50	49	50	37	31	37
24 19 10 5 3 2	3'	47	47	47	34	32	34
17 14 9 5 3 3	4'	38	38	38	27	27	27
12 10 8 5 3 3	5'	31	31	31	22	22	22
9 8 6 5 3 3	6'	25	25	25	18	18	18
7 6 5 4 3 3	7'	21	21	21	16	15	16
6 5 4 4 3 2	8'	18	18	18	14	13	14
4 4 3 3 2 2	9'	14	14	14	11	11	11

LUMEN MULTIPLIER:
 2000 X .67
 1250 X .42
 850 X .28

PERFORMANCE DATA / LUMINAIRES SPACED 3' FROM WALL

Catalog Number: SD6 30LM BBD MVOLT G4 90CRI ZT FM; SD6 AW CSS FM

Spread: Single Wall

Single Unit	Lamp	Multiple Units On 2' Centers*		Multiple Units On 3' Centers*		Multiple Units On 4' Centers*	
Lateral Distance From Fixture 3' From Wall	LMH020-3000-27G9-00000SS 2700K	Spaced 3' From Wall		Spaced 3' From Wall		Spaced 3' From Wall	
0' 1' 2' 3' 4' 5'	Distance From Ceiling	CL	CL	CL	CL	CL	CL
6 5 3 2 2 1	1'	10	9	10	8	7	8
13 11 7 4 3 2	2'	21	20	21	18	15	18
14 12 8 5 3 3	3'	25	24	25	20	18	20
13 11 8 6 4 3	4'	24	24	24	19	18	19
11 9 7 5 4 3	5'	21	21	21	17	17	17
9 8 6 5 4 3	6'	19	19	19	15	15	15
7 7 6 5 4 3	7'	17	17	17	13	14	13
6 5 5 4 3 3	8'	15	15	15	12	12	12
5 4 4 3 3 2	9'	12	12	12	10	10	10

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