

PRODUCT SPECIFICATIONS

LED Light Engine Fixture to fixture color consistency within a 2-step MacAdam ellipse • 2700K, 3000K, 3500K, or 4000K color temperatures are available with 80 CRI minimum • 2700K and 3000K are also available with 90 CRI minimum.

Modular Optics 45° cutoff to source and source image • Available with field interchangeable optics in 15°, 24°, 35°, and 45° distributions • Additional distributions of 20°, 30°, 40°, 50°, 55°, 60°, and 60° x 20° FWHM can be achieved with the use of the diffusing films and spot primary optic.

Reflector .040" aluminum reflector in clear specular, black specular, clear diffuse, white or wheat diffuse Alzak finish provides 50° cut-off.

Trim Style Self Flanged and Flangeless styles (drywall only) are available • Flange is same finish as reflector unless optional painted white flange is specified

LED Driver Choice of two drivers to accommodate voltages from 120-277 volts AC at 50/60Hz • Dims as low as 1% with most incandescent and electronic low voltage dimmers or 0-10V dimmers • For a list of compatible dimmers, refer to [ACULUX2-DIM](#) • Power Factor > 0.9 • Field replaceable from above or below ceiling.

Life Rated for 50,000 hrs at 70% lumen maintenance.

Codes/Labels UL and cUL listed for damp or wet locations • ENERGY STAR® certified with select trim finishes • Union made.

Remodel Installation Fixture installs from below the ceiling and secured to remodel ring.

Wiring Includes (2) 1/2" knockouts equipped with pryout slots and are compatible with flexible electrical supply only • Supplied with quick connect electrical connectors.

Ceiling Thickness 1/2" – 1 1/2" ceiling standard.

Buy American This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FARS, DFARS and DOT. Please refer to www.acuitybrands.com/buy-american for additional information.

Warranty 5-year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

NOTE: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25°C. Specifications subject to change without notice.



Design2Ship Quick Ship Program:
Options in green text qualify for Design2Ship — 5 business days from order entry to ship. Refer to Design2Ship Brochure for complete program details.
Maximum Order Quantity: 50 units for housings; 25 units for trims.

ORDERING INFORMATION

Example: AX2 DR G2 08LM 30K 80CRI 24D FPC 120 2DP CS SF

HOUSING OPTIONS																
	Series / Housing Style		Lumens		CCT		CRI		Beam		Driver		Voltage ²		Options	
	AX2 DR G2	Remodel Downlight	08LM	800 Lumens	27K	2700K	80CRI	15D	15° beam	FPC	Phase cut dimming, 1% dim	120	MVOLT (120-277)	NLIGHT ³	nLight dimming pack controls (must be remote mounted)	
			12LM	1200 Lumens	30K	3000K	90CRI ¹	24D	24° beam	ZT	0-10V Dimming, 1% dim					
			15LM	1500 Lumens	35K	3500K		35D	35° beam							
AX2 AR G2	Remodel Universal ADJ/DL/WW				40K	4000K		45D	45° beam							

TRIM OPTIONS	Trim Style		Reflector Finish		Flange Style / Finish		Environment		Ceiling Installation	
	DOWNLIGHT		BS	Black Specular	SELF FLANGED		WET	Wet location	SELF-FLANGED	
			CD	Clear Diffuse	SF	Flange is same finish as reflector			Ceiling 0.5" - 1.5"	
		2DP	CS	Clear Specular	WHSF	White, flanged				
			W	White Paint	FLANGELESS ⁴				FLANGELESS, GYPSUM	
			WTD	Wheat Diffuse	FM	Flangeless			FMA2R	
									Ceiling 0.5" - 1.5"	

Ordering Notes

¹ 90CRI available on 27K and 30K only.

⁴ Flangeless trims in drywall ceilings must specify ceiling installation (FMA2R).

² MVOLT standard on ZT. 120 standard on FPC.

³ NLIGHT compatible with ZT only.

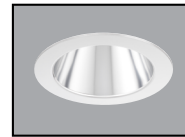


2" LED RECESSED DOWNLIGHT

800/1200/1500 LUMEN

ROUND PARABOLIC DOWNLIGHT
REMODEL

AX2 DR/AX2 AR with 2DP Trim



Self-Flanged



Flangeless



AX2 DR

2" LED RECESSED DOWNLIGHT

800/1200/1500 LUMEN

ROUND PARABOLIC DOWNLIGHT REMODEL

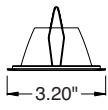
AX2 DR/AX2 AR with 2DP Trim

TRIM SELECTION

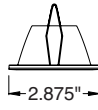
2DP Parabolic Downlight Trim



Self-Flanged



Flangeless

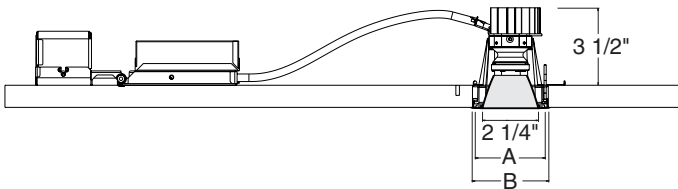
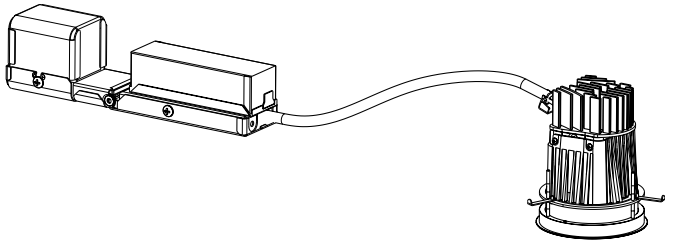


CCT/CRI:	80CRI 27K, 30K, 35K, 40K; 90CRI 27K, 30K
Optic:	15D, 24D, 35D, 45D
Trim Finish:	CS, CD, WTD, W

* With WET option

DIMENSIONS

REMODEL



Trim Style	Cutout Size (A)	Trim O.D. (B)
Self Flanged Trims	2.953" (75mm)	3.20"
Flangeless Trims (Drywall Ceiling)	3"	2.875"

Note: An accurate hole saw is recommended for best results.

ACCESSORIES

Cat. #	Description
2AXG2OPT/15D	15° Spot Optic
2AXG2OPT/24D	24° Narrow Flood Optic
2AXG2OPT/35D	35° Flood Optic
2AXG2OPT/45D	45° Wide Flood Optic
AF2/10	10° Film (Use with 15D Optic)
AF2/20	20° Film (Use with 15D Optic)
AF2/30	30° Film (Use with 15D Optic)
AF2/40	40° Film (Use with 15D Optic)
AF2/50	50° Film (Use with 15D Optic)
AF2/60	60° Film (Use with 15D Optic)
AF2/90x1	90°x1° Film (Use with 15D Optic)
EMI20	20W Emergency Lighting Inverter

To order, specify catalog number.

DIFFUSING FILMS

To achieve the desired beam angle (FWHM), specify the following primary LED optic on the luminaire and order the diffusing film accessory from the table below

Desired FWHM	Primary Optic	Film
15°	15D	-
20°	15D	AF2/10
24°	24D	-
30°	15D	AF2/20
35°	35D	-
40°	15D	AF2/30
45°	45D	-
50°	15D	AF2/40
55°	15D	AF2/50
60°	15D	AF2/60
60°x20°	15D	AF2/90x1

Lumen Package	08LM			12LM			15LM		
Driver Option	FPC	ZT		FPC	ZT		FPC	ZT	
Voltage	120	120	277	120	120	277	120	120	277
Input Power	10.0	9.9	10.1	14.7	14.3	14.3	17.3	16.5	16.4
Input Current	0.08	0.08	0.04	0.12	0.12	0.06	0.14	0.14	0.06
Frequency	50/60Hz			50/60Hz			50/60Hz		
Power Factor	0.99	0.99	0.9	0.99	0.99	0.92	0.99	0.99	0.92

2" LED RECESSED DOWNLIGHT

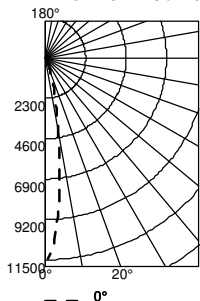
800/1200/1500 LUMEN

ROUND PARABOLIC DOWNLIGHT REMODEL

AX2 DR/AX2 AR with 2DP Trim

PHOTOMETRICS

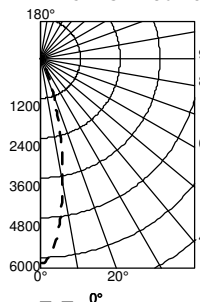
AX2 DR G2 15LM 30K 80CRI 15D FPC 120 2DP CD, 3000K LEDs, input watts: 17.3, delivered lumens: 1522, LM/W = 88, test no. PT07172502, tested in accordance to IESNA LM-79



CP Summary		Coefficients of Utilization										Zonal Lumen Summary			
		pf	20%			50%			80%						
			pw	70°	60°	30°	50°	30°	10°	50°	30°	10°			
				0°	Zone	Lumens	% Lamp	% Fixture							
0°	11639	0	119	119	119	116	116	111	111	111	0° - 30°	1454	96.7	96.7	
5°	8586	1	115	113	112	111	110	108	107	106	105	0° - 40°	1497	99.5	99.5
15°	2012	2	112	108	106	107	104	102	104	102	100	0° - 60°	1504	100.0	100.0
25°	419	3	109	104	101	103	100	97	101	98	96	0° - 90°	1504	100.0	100.0
35°	56	4	106	101	97	100	96	94	98	95	93	90° - 180°	0	0.0	0.0
45°	6	5	103	97	94	97	93	90	95	92	90	0° - 180°	1504	100.0	100.0
55°	1	6	100	94	91	94	90	88	92	89	87				
65°	0	7	98	92	88	91	88	85	90	87	85				
75°	0	8	95	89	86	89	85	83	88	85	83				
85°	0	9	93	87	83	87	83	81	86	83	81				
90°	0	10	91	85	81	85	81	79	84	81	79				

CONE OF LIGHT - Beam: 16.2°			LUMINANCE (cd/sq.m)	
Distance to Illuminated Plane (ft)	Footcandles Beam Center	Beam Diameter	Degrees	Average Luminance
4	727.5	1.1	45	3379
6	323.3	1.7	55	794
8	181.9	2.3	65	359
10	116.4	2.8	75	147
12	80.8	3.4	85	0

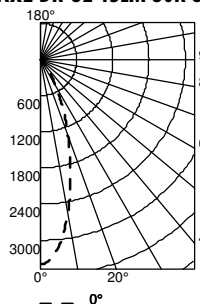
AX2 DR G2 15LM 30K 80CRI 24D FPC 120 2DP CD, 3000K LEDs, input watts: 17.3, delivered lumens: 1391, LM/W = 80, test no. PT07172510, tested in accordance to IESNA LM-79



CP Summary	Coefficients of Utilization												Zonal Lumen Summary			
	0°	pc	pf	80%			70%			50%			Zone	Lumens	% Lamp	% Fixture
				pw	70°/50°/30°	50°/30°/10°	50°/30°/10°	50°/30°/10°	50°/30°/10°	50°/30°/10°						
0°	6195	0	119	119	119	116	116	116	111	111	111	0° - 30°	1320	95.5	95.5	
5°	5483	1	115	113	111	111	109	108	107	105	104	0° - 40°	1373	99.3	99.3	
15°	2198	2	111	108	105	106	103	101	103	101	99	0° - 60°	1382	100.0	100.0	
25°	506	3	108	103	99	102	98	96	99	96	94	0° - 90°	1382	100.0	100.0	
35°	67	4	104	95	95	98	94	91	96	93	90	90° - 180°	0	0.0	0.0	
45°	8	5	101	91	91	94	90	88	93	89	87	0° - 180°	1382	100.0	100.0	
55°	1	6	98	92	88	91	87	84	90	86	84					
65°	0	7	95	89	85	88	84	81	87	84	81					
75°	0	8	93	86	82	85	82	79	85	81	78					
85°	0	9	90	83	79	83	79	76	82	79	76					
90°	0	10	88	81	77	81	77	74	80	76	74					

CONE OF LIGHT - Beam: 24.4°			LUMINANCE (cd/sq.m)	
Distance to Illuminated Plane (ft)	Footcandles Beam Center	Beam Diameter	Degrees	Average Luminance
4	387.2	1.7	45	4291
6	172.1	2.6	55	794
8	96.8	3.5	65	359
10	62.0	4.3	75	147
12	43.0	5.2	85	0

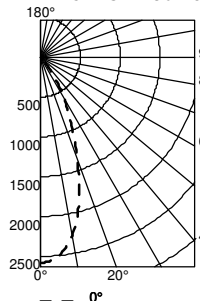
AX2 DR G2 15LM 30K 80CRI 35D FPC 120 2DP CD, 3000K LEDs, input watts: 17.3, delivered lumens: 1387, LM/W = 80, test no. PT07172618, tested in accordance to IESNA LM-79



CP Summary	Coefficients of Utilization										Zonal Lumen Summary				
	pf	80%			70%			50%							
	pc	50%			30%			10%							
	pw	70%	50%	30%	50%	30%	10%	50%	30%	10%	Zone	Lumens	% Lamp	% Fixture	
0°	3407	0	119	119	119	116	116	116	111	111	111	0° - 30°	1205	87.2	87.2
5°	3168	1	114	112	110	110	108	106	106	104	103	0° - 40°	1360	98.4	98.4
15°	1930	2	110	106	102	104	101	98	101	98	96	0° - 60°	1381	99.9	99.9
25°	848	3	105	100	96	99	95	92	96	93	90	0° - 90°	1382	100.0	100.0
35°	236	4	101	95	90	94	89	86	92	88	85	90° - 180°	0	0.0	0.0
45°	20	5	97	90	85	89	85	81	88	84	81	0° - 180°	1382	100.0	100.0
55°	2	6	93	86	81	85	81	77	84	80	77				
65°	1	7	90	82	77	82	77	73	80	76	73				
75°	0	8	87	79	74	78	73	70	77	73	70				
85°	0	9	83	75	70	75	70	67	74	70	67				
90°	0	10	80	72	67	72	67	64	71	67	64				

CONE OF LIGHT - Beam: 33.5°			LUMINANCE (cd/sq.m)	
Distance to Illuminated Plane (ft)	Footcandles Beam Center	Beam Diameter	Degrees	Average Luminance
4	212.9	2.4	45	10513
6	94.6	3.6	55	1587
8	53.2	4.8	65	628
10	34.1	6.0	75	293
12	23.7	7.2	85	0

AX2 DR G2 15LM 30K 80CRI 45D FPC 120 2DP CD, 3000K LEDs, input watts: 17.3, delivered lumens: 1378, LM/W = 80, test no. PT07172626, tested in accordance to IESNA LM-79



Coefficients of Utilization														
CP Summary	0°	pf pc	80%		20%		70%		50%		Zonal Lumen Summary			
			pw	70°50°30%	50°30°10%	50°30°10%	50°30°10%	50°30°10%	Zone	Lumens	% Lamp	% Fixture		
0°	2581		0	119 119 119	116	116	116	111	111	111	0° - 30°	1157	84.2	
5°	2513		1	114 112 109	110	108	106	106	104	103	0° - 40°	1346	97.9	97.9
15°	1858		2	109 105 101	103	100	97	100	98	95	0° - 60°	1373	99.9	99.9
25°	909		3	105 99 95	98	94	90	95	92	89	0° - 90°	1374	100.0	100.0
35°	294		4	100 94 89	93	88	85	91	87	84	90° - 180°	0	0.0	0.0
45°	23		5	96 89 84	88	83	80	86	82	79	0° - 180°	1374	100.0	100.0
55°	2		6	92 84 79	84	79	75	82	78	75				
65°	1		7	88 80 75	80	75	71	78	74	71				
75°	0		8	85 76 71	76	71	67	75	70	67				
85°	0		9	81 73 68	73	68	64	72	67	64				
90°	0		10	78 70 65	69	65	61	69	64	61				

CONE OF LIGHT - Beam: 41.2°			LUMINANCE (cd/sq.m)	
Distance to Illuminated Plane (ft)	Footcandles Beam Center	Beam Diameter	Degrees	Luminance
4	161.3	3.0	45	12444
6	71.7	4.5	55	1587
8	40.3	6.0	65	718
10	25.8	7.5	75	293
12	17.9	9.0	85	435

LUMEN OUTPUT MULTIPLIERS

Color Temperature	CRI	Multiplier
2700K	80	0.95
3000K	80	1.00
3500K	80	1.05
4000K	80	1.10

Color Temperature	CRI	Multiplier
2700K	90	0.83
3000K	90	0.87

Lumen Package	Multiplier
800	0.58
1200	0.86
1500	1.00

2" LED RECESSED DOWNLIGHT

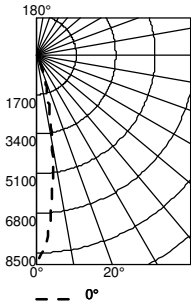
800/1200/1500 LUMEN

ROUND PARABOLIC DOWNLIGHT REMODEL

AX2 DR/AX2 AR with 2DP Trim with WET option

PHOTOMETRICS

AX2 DR G2 15LM 30K 80CRI 15D FPC 120 2DP CD WET, 3000K LEDs, input watts: 17.3, delivered lumens: 1390, LM/W = 80, test no. PT07172507, tested in accordance to IESNA LM-79



CP Summary

0°
0° 8823
5° 6966
15° 1899
25° 445
35° 69
45° 9
55° 2
65° 1
75° 0
85° 0
90° 0

Coefficients of Utilization

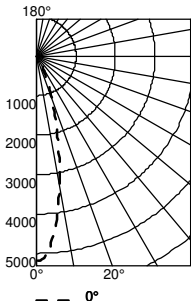
pc	20°		
	80%	70%	50%
pw	70%50%30%	50%30%10%	50%30%10%
0	119 119 119	116 116 116	111 111 111
1	115 113 111	111 109 108	107 106 105
2	112 108 105	106 104 102	103 101 99
3	108 104 100	102 99 97	100 97 95
4	105 100 96	99 95 93	97 94 91
5	102 96 92	95 92 89	94 91 88
6	99 93 89	93 89 86	91 88 85
7	97 90 86	90 86 83	89 85 83
8	94 88 84	87 84 81	86 83 81
9	92 85 81	85 81 79	84 81 78
10	90 83 79	83 79 77	82 79 77

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	1315	95.5	95.5
0° - 40°	1367	99.3	99.3
0° - 60°	1376	99.9	99.9
0° - 90°	1377	100.0	100.0
90° - 180°	0	0.0	0.0
0° - 180°	1377	100.0	100.0

CONE OF LIGHT - Beam: 18.2°			LUMINANCE (cd/sq.m)	
Distance to Illuminated Plane (ft)	Footcandles Beam Center	Beam Diameter	Degrees	Average Luminance
4	551.4	1.3	45	4613
6	245.1	1.9	55	992
8	137.9	2.6	65	538
10	88.2	3.2	75	293
12	61.3	3.8	85	0

AX2 DR G2 15LM 30K 80CRI 24D FPC 120 2DP CD WET, 3000K LEDs, input watts: 17.3, delivered lumens: 1287, LM/W = 74, test no. PT07172515, tested in accordance to IESNA LM-79



CP Summary

0°
0° 5203
5° 4650
15° 2010
25° 525
35° 83
45° 11
55° 2
65° 1
75° 0
85° 0
90° 0

Coefficients of Utilization

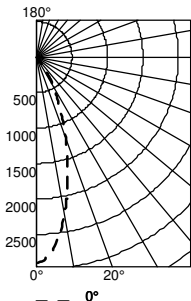
pc	20°		
	80%	70%	50%
pw	70%50%30%	50%30%10%	50%30%10%
0	119 119 119	116 116 116	111 111 111
1	115 113 111	111 109 107	107 105 104
2	111 107 104	106 103 100	102 100 98
3	107 102 99	101 98 95	99 96 93
4	104 98 94	97 93 90	95 92 89
5	100 94 90	93 89 86	92 88 86
6	97 91 86	90 86 83	89 85 82
7	94 88 83	87 83 80	86 82 80
8	91 85 80	84 80 77	83 79 77
9	89 82 78	81 77 75	81 77 74
10	86 79 75	79 75 72	78 75 72

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	1206	94.2	94.2
0° - 40°	1268	99.1	99.1
0° - 60°	1279	99.9	99.9
0° - 90°	1280	100.0	100.0
90° - 180°	0	0.0	0.0
0° - 180°	1280	100.0	100.0

CONE OF LIGHT - Beam: 25.4°			LUMINANCE (cd/sq.m)	
Distance to Illuminated Plane (ft)	Footcandles Beam Center	Beam Diameter	Degrees	Average Luminance
4	325.2	1.8	45	5739
6	144.5	2.7	55	992
8	81.3	3.6	65	538
10	52.0	4.5	75	293
12	36.1	5.4	85	435

AX2 DR G2 15LM 30K 80CRI 35D FPC 120 2DP CD WET, 3000K LEDs, input watts: 17.3, delivered lumens: 1260, LM/W = 73, test no. PT07172623, tested in accordance to IESNA LM-79



CP Summary

0°
0° 2899
5° 2719
15° 1715
25° 790
35° 235
45° 21
55° 3
65° 1
75° 0
85° 0
90° 0

Coefficients of Utilization

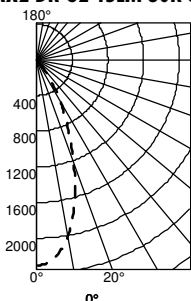
pc	20°		
	80%	70%	50%
pw	70%50%30%	50%30%10%	50%30%10%
0	119 119 119	116 116 116	111 111 111
1	114 112 110	110 108 106	106 104 103
2	110 105 102	104 101 98	101 98 96
3	105 100 95	98 94 91	96 92 90
4	101 94 90	93 89 86	91 88 85
5	97 90 85	89 84 81	87 83 80
6	93 85 80	85 80 76	83 79 76
7	89 81 76	81 76 73	80 75 72
8	86 78 73	77 72 69	76 72 69
9	83 74 69	74 69 66	73 69 66
10	80 71 66	71 66 63	70 66 63

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	1079	85.9	85.9
0° - 40°	1232	98.0	98.0
0° - 60°	1255	99.9	99.9
0° - 90°	1256	100.0	100.0
90° - 180°	0	0.0	0.0
0° - 180°	1256	100.0	100.0

CONE OF LIGHT - Beam: 35°			LUMINANCE (cd/sq.m)	
Distance to Illuminated Plane (ft)	Footcandles Beam Center	Beam Diameter	Degrees	Average Luminance
4	181.2	2.5	45	11371
6	80.5	3.8	55	1719
8	45.3	5.0	65	897
10	29.0	6.3	75	586
12	20.1	7.6	85	435

AX2 DR G2 15LM 30K 80CRI 45D FPC 120 2DP CD WET, 3000K LEDs, input watts: 17.3, delivered lumens: 1252, LM/W = 72, test no. PT07172631, tested in accordance to IESNA LM-79



CP Summary

0°
0° 2304
5° 2237
15° 1647
25° 833
35° 281
45° 25
55° 3
65° 1
75° 0
85° 0
90° 0

Coefficients of Utilization

pc	20°		
	80%	70%	50%
pw	70%50%30%	50%30%10%	50%30%10%
0	119 119 119	116 116 116	111 111 111
1	114 112 109	109 107 106	105 104 102
2	109 105 101	103 100 97	100 97 95
3	105 99 94	98 93 90	95 92 89
4	100 93 89	92 88 84	90 86 83
5	96 88 83	88 83 79	86 82 78
6	92 84 79	83 78 75	82 77 74
7	88 80 74	79 74 71	78 73 70
8	84 76 71	75 70 67	74 70 67
9	81 72 67	72 67 64	71 67 63
10	78 69 64	69 64 61	68 64 60

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	1039	83.2	83.2
0° - 40°	1219	97.6	97.6
0° - 60°	1248	99.9	99.9
0° - 90°	1249	100.0	100.0
90° - 180°	0	0.0	0.0
0° - 180°	1249	100.0	100.0

CONE OF LIGHT - Beam: 41.6°			LUMINANCE (cd/sq.m)	
Distance to Illuminated Plane (ft)	Footcandles Beam Center	Beam Diameter	Degrees	Average Luminance
4	144.0	3.0	45	13302
6	64.0	4.6	55	1719
8	36.0	6.1	65	987
10	23.0	7.6	75	586
12	16.0	9.1	85	435

LUMEN OUTPUT MULTIPLIERS

Color Temperature	CRI	Multiplier
2700K	80	0.95
3000K	80	1.00
3500K	80	1.05
4000K	80	1.10

Color Temperature	CRI	Multiplier
2700K	90	0.83
3000K	90	0.87

Lumen Package	Multiplier
800	0.58
1200	0.86
1500	1.00