

REPORT NUMBER: ITL88314-GONIOPHOTOMETRY

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ISSUE DATE: 09/22/16

PREPARED FOR: B-K LIGHTING, INC.

CATALOG NUMBER: AP-LED-x45-WFL-12-C

LUMINAIRE: MACHINED BLACK PAINTED METAL WALL MOUNTING BRACKET AND HOUSING WITH DIFFUSE CIRCUIT BOARD MOUNTING BASE, 1 CIRCUIT BOARD WITH 1 LED, MOLDED WHITE PLASTIC LED SURROUND/REFLECTOR MOUNTING BASE, MOLDED MULTI-FACETED TIERED WHITE PLASTIC REFLECTOR WITH TEXTURED SEMI-SPECULAR FINISH, CLEAR MICRO-PRISMATIC FLAT GLASS LENS IN MACHINED BLACK PAINTED CYLINDRICAL METAL FRAME WITH UNFINISHED INTERIOR. LENS PRISMS OUT.

LAMP: ONE WHITE MULTI-CHIP LIGHT EMITTING DIODE (LED), VERTICAL BASE-UP POSITION.

INPUT ELECTRICAL: 120.0 VOLTS, 34.3 WATTS, 0.288 AMPS

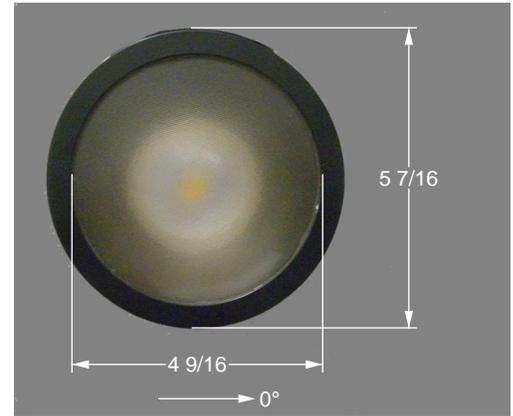
MOUNTING: WALL

LED DRIVER: ELDOLED ECODRIVE 561/S, DRIVER HAS MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST. CLIENT STATES DRIVER PROGRAMMED FOR 1050mA OUTPUT.

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120VAC, 60Hz) TO THE DRIVER.

TEST PROCEDURE: IESNA LM-79-08

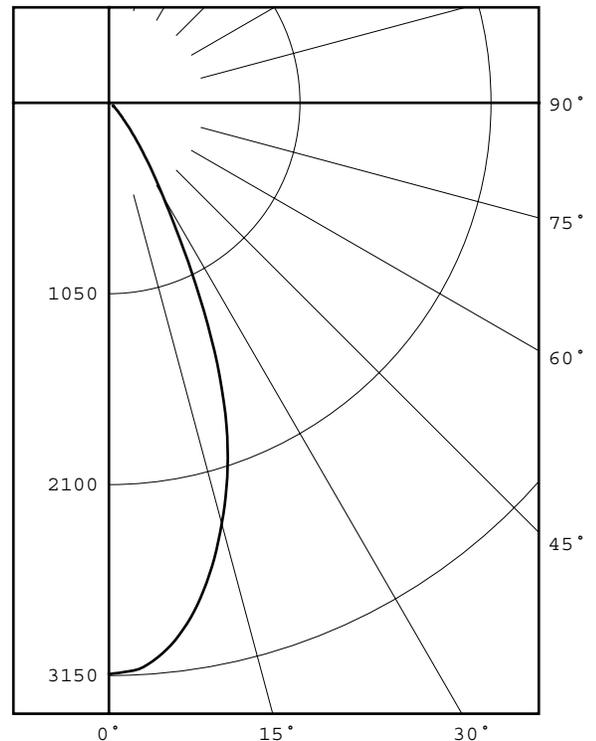
TEST DISTANCE = 20.0 FEET



DEG	CANDELA	LUMENS
0	3142	
5	3062	284
15	2397	661
25	1184	540
35	308	203
45	79	65
55	29	27
65	14	14
75	7	8
85	2	2
90	0	

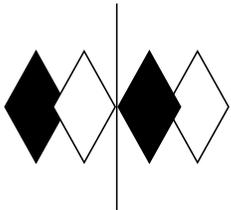
ZONAL LUMEN SUMMARY		
ZONE	LUMENS	%FIXT
0- 30	1486	82.3
0- 40	1689	93.5
0- 60	1782	98.7
0- 90	1806	100.0
90-180	0	0.0
0-180	1806	100.0

EFFICACY = 52.7 lm/W  
CIE TYPE - DIRECT  
LUMINAIRE SPACING CRITERION = 0.68  
BEAM ANGLE (50%) : 44.8 DEGREES  
FIELD ANGLE (10%) : 69.7 DEGREES  
LUMINOUS DIAMETER: 4.562



LUMINANCE DATA IN CANDELA/SQ M	
ANGLE AVERAGE	IN DEG
45	10592.
55	4793.
65	3141.
75	2564.
85	2176.

Checked J. VILLANUEVA  
Approved R. BEATTIE  
Lighting Engineer



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INDEPENDENT TESTING LABORATORIES, INC.  
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CANDELA DISTRIBUTION

0.0	3142
2.5	3125
5.0	3062
7.5	2954
10.0	2802
12.5	2614
15.0	2397
17.5	2161
20.0	1888
22.5	1558
25.0	1184
27.5	843
30.0	598
32.5	431
35.0	308
37.5	216
40.0	150
42.5	107
45.0	79
47.5	59
50.0	46
52.5	36
55.0	29
57.5	24
60.0	20
62.5	17
65.0	14
67.5	12
70.0	10
72.5	9
75.0	7
77.5	6
80.0	4
82.5	3
85.0	2
87.5	1
90.0	0



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5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	74
5- 10	210
10- 15	308
15- 20	353
20- 25	323
25- 30	218
30- 35	129
35- 40	74
40- 45	41
45- 50	24
50- 55	16
55- 60	11
60- 65	8
65- 70	6
70- 75	5
75- 80	3
80- 85	2
85- 90	1

10-DEGREE  
ZONAL LUMEN SUMMARY

0- 10	284
0- 20	945
0- 30	1486
0- 40	1689
0- 50	1754
0- 60	1782
0- 70	1796
0- 80	1804
0- 90	1806



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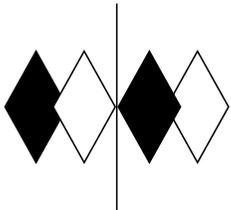
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80				70				50			30			10			0	
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	102	102	102	100
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94	94
2	109	104	100	97	107	102	99	96	99	96	94	96	94	92	94	92	90	89	89
3	104	98	93	90	102	97	92	89	94	90	88	92	89	86	89	87	85	83	83
4	99	92	87	83	98	91	87	83	89	85	82	87	84	81	85	82	80	79	79
5	95	87	82	78	93	86	81	78	85	80	77	83	79	76	82	78	76	74	74
6	91	83	77	73	89	82	77	73	81	76	73	79	75	72	78	74	72	70	70
7	87	79	73	69	86	78	73	69	77	72	69	76	71	68	75	71	68	67	67
8	83	75	69	66	82	74	69	66	73	69	65	72	68	65	71	68	65	63	63
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	65	62	60	60
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	66	62	59	58	58

ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS TEST SAMPLE.



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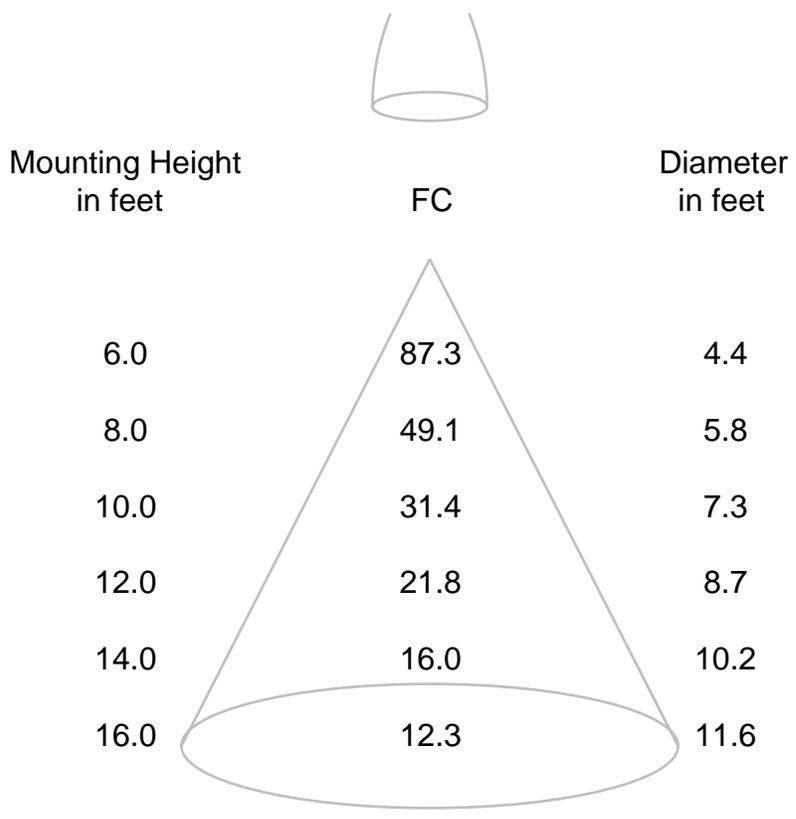
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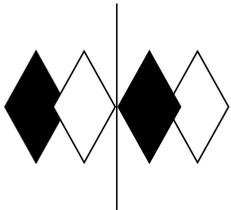
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## CONE OF LIGHT DIAGRAM

(diameter shown is where fc value is half the fc at nadir)





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