

REPORT NUMBER: ITL88315-GONIOPHOTOMETRY

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ISSUE DATE: 09/22/16

PREPARED FOR: B-K LIGHTING, INC.

CATALOG NUMBER: AP-LED-x48-FL-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, 42.5 WATTS, 0.357 AMPS

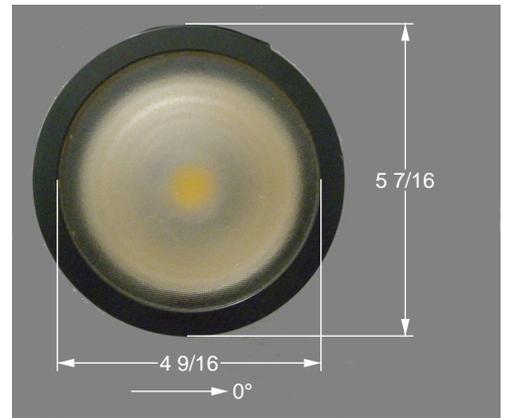
MOUNTING: WALL

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

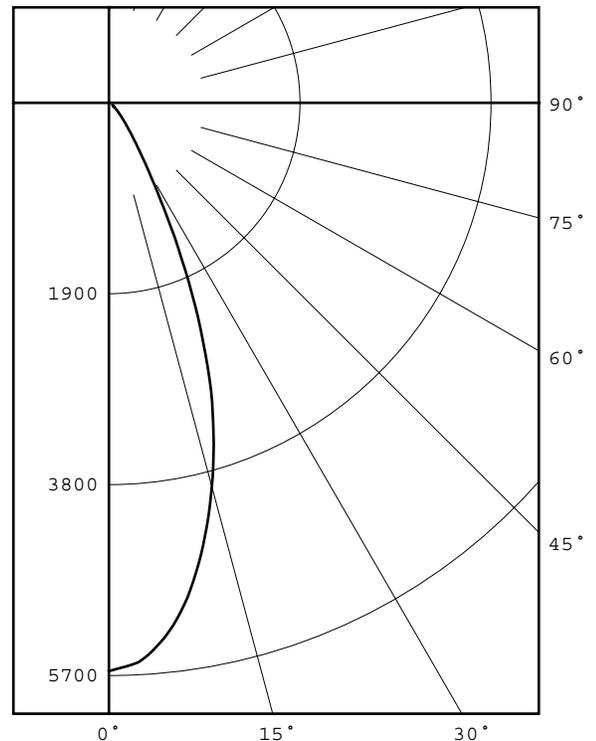


DEG	CANDELA	LUMENS
0	5656	
5	5432	500
15	3954	1086
25	1714	790
35	405	272
45	131	106
55	51	47
65	24	24
75	12	13
85	3	3
90	0	

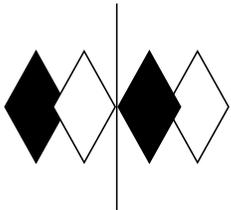
ZONAL LUMEN SUMMARY		
ZONE	LUMENS	%FIXT
0- 30	2375	83.6
0- 40	2648	93.2
0- 60	2801	98.6
0- 90	2842	100.0
90-180	0	0.0
0-180	2842	100.0

EFFICACY = 66.9 lm/W  
CIE TYPE - DIRECT  
LUMINAIRE SPACING CRITERION = 0.64  
BEAM ANGLE (50%) : 40.8 DEGREES  
FIELD ANGLE (10%) : 64.9 DEGREES  
LUMINOUS DIAMETER: 4.562

LUMINANCE DATA IN CANDELA/SQ M	
ANGLE	AVERAGE
IN DEG	
45	17564.
55	8430.
65	5384.
75	4396.
85	3263.



Checked J. VILLANUEVA  
Approved R. BEATTIE  
Lighting Engineer



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INDEPENDENT TESTING LABORATORIES, INC.  
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CANDELA DISTRIBUTION

0.0	5656
2.5	5593
5.0	5432
7.5	5181
10.0	4835
12.5	4415
15.0	3954
17.5	3460
20.0	2924
22.5	2315
25.0	1714
27.5	1191
30.0	800
32.5	560
35.0	405
37.5	300
40.0	225
42.5	171
45.0	131
47.5	102
50.0	80
52.5	63
55.0	51
57.5	41
60.0	34
62.5	28
65.0	24
67.5	20
70.0	17
72.5	15
75.0	12
77.5	10
80.0	7
82.5	5
85.0	3
87.5	1
90.0	0



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5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	132
5- 10	367
10- 15	520
15- 20	566
20- 25	483
25- 30	307
30- 35	170
35- 40	102
40- 45	64
45- 50	42
50- 55	28
55- 60	19
60- 65	14
65- 70	10
70- 75	8
75- 80	5
80- 85	3
85- 90	1

10-DEGREE  
ZONAL LUMEN SUMMARY

0- 10	500
0- 20	1585
0- 30	2375
0- 40	2648
0- 50	2754
0- 60	2801
0- 70	2825
0- 80	2838
0- 90	2842



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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	104	102	101	101	100	99	98	97	96	94
2	109	104	101	98	107	103	99	97	100	97	94	94	97	94	92	94	92	90	89
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84	84
4	100	93	88	84	98	92	87	84	90	86	83	88	84	82	86	83	81	79	79
5	95	88	83	79	94	87	82	79	85	81	78	84	80	77	82	79	77	75	75
6	92	84	78	74	90	83	78	74	81	77	74	80	76	73	79	75	73	71	71
7	88	80	74	70	87	79	74	70	78	73	70	77	73	70	76	72	69	68	68
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	72	69	66	65	65
9	81	73	67	64	80	72	67	64	71	67	63	70	66	63	70	66	63	62	62
10	78	69	64	61	77	69	64	61	68	64	61	68	63	61	67	63	60	59	59

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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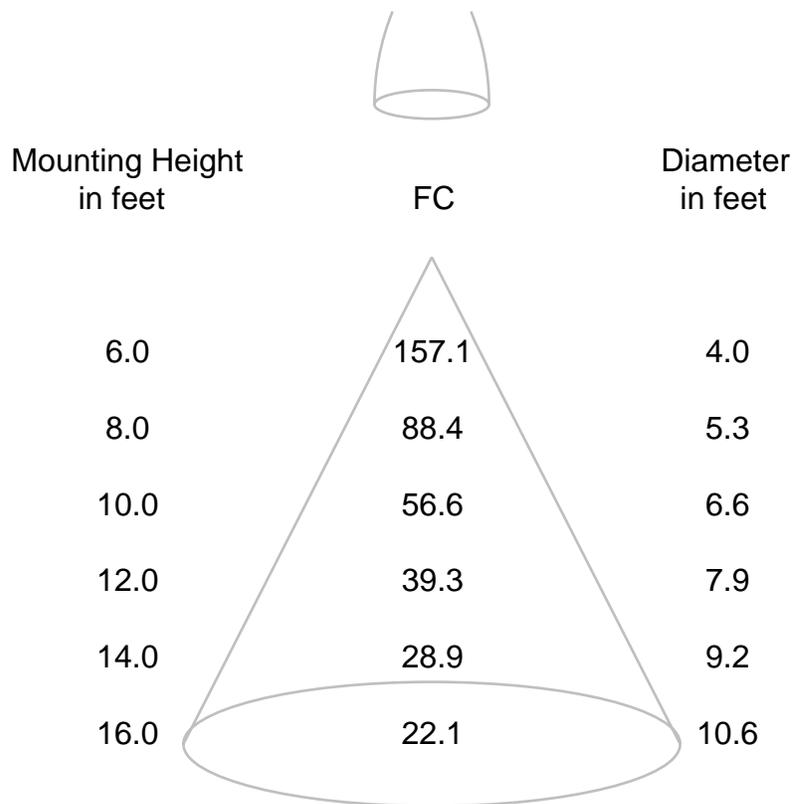
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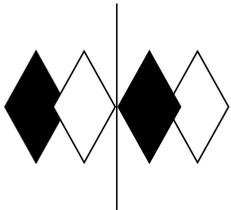
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## CONE OF LIGHT DIAGRAM

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





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