

REPORT NUMBER: ITL88313-GONIOPHOTOMETRY

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ISSUE DATE: 09/21/16

PREPARED FOR: B-K LIGHTING, INC.

CATALOG NUMBER: AP-LED-x45-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, 34.3 WATTS, 0.288 AMPS

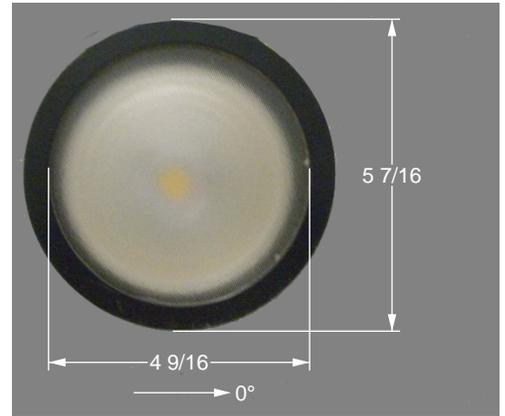
MOUNTING: WALL

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	5096	
5	4826	438
15	3171	874
25	1312	607
35	332	220
45	110	89
55	43	40
65	20	20
75	10	11
85	3	3
90	0	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	1919	83.4
0- 40	2139	93.0
0- 60	2267	98.5
0- 90	2301	100.0
90-180	0	0.0
0-180	2301	100.0

EFFICACY = 67.1 lm/W

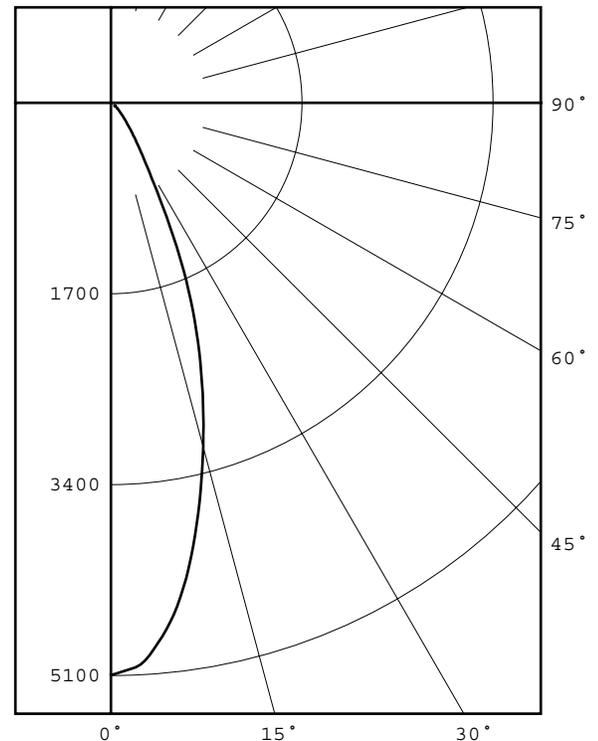
CIE TYPE - DIRECT

LUMINAIRE SPACING CRITERION = 0.59

BEAM ANGLE (50%) : 36.8 DEGREES

FIELD ANGLE (10%) : 63.2 DEGREES

LUMINOUS DIAMETER: 4.562

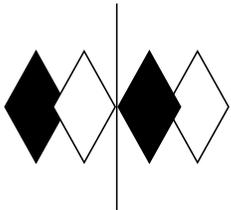


LUMINANCE DATA IN CANDELA/SQ M  
ANGLE AVERAGE  
IN DEG

45	14748.
55	7107.
65	4487.
75	3663.
85	3263.

Checked J. VILLANUEVA

Approved R. BEATTIE  
Lighting Engineer



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CANDELA DISTRIBUTION

0.0	5096
2.5	5031
5.0	4826
7.5	4519
10.0	4108
12.5	3643
15.0	3171
17.5	2714
20.0	2263
22.5	1804
25.0	1312
27.5	889
30.0	616
32.5	448
35.0	332
37.5	249
40.0	188
42.5	143
45.0	110
47.5	85
50.0	67
52.5	53
55.0	43
57.5	35
60.0	28
62.5	23
65.0	20
67.5	17
70.0	14
72.5	12
75.0	10
77.5	8
80.0	6
82.5	4
85.0	3
87.5	1
90.0	0



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5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	119
5- 10	319
10- 15	429
15- 20	445
20- 25	374
25- 30	233
30- 35	135
35- 40	85
40- 45	54
45- 50	35
50- 55	23
55- 60	16
60- 65	11
65- 70	9
70- 75	6
75- 80	4
80- 85	2
85- 90	1

10-DEGREE  
ZONAL LUMEN SUMMARY

0- 10	438
0- 20	1312
0- 30	1919
0- 40	2139
0- 50	2227
0- 60	2267
0- 70	2287
0- 80	2298
0- 90	2301



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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	112	109	107	105	105	104	102	102	102	100	99	98	97	96	94
2	109	105	101	98	107	103	99	97	100	97	95	97	94	93	94	92	91	89	89
3	104	98	94	90	102	97	93	90	95	91	88	92	89	87	90	88	86	84	84
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80	80
5	96	88	83	79	94	87	83	79	86	81	78	84	80	78	83	79	77	76	76
6	92	84	79	75	90	83	78	75	82	77	74	80	77	74	79	76	73	72	72
7	88	80	75	71	87	79	74	71	78	74	70	77	73	70	76	72	70	68	68
8	85	76	71	68	84	76	71	67	75	70	67	74	70	67	73	69	67	65	65
9	81	73	68	64	80	73	68	64	72	67	64	71	67	64	70	66	64	63	63
10	79	70	65	62	78	70	65	62	69	64	61	68	64	61	67	64	61	60	60

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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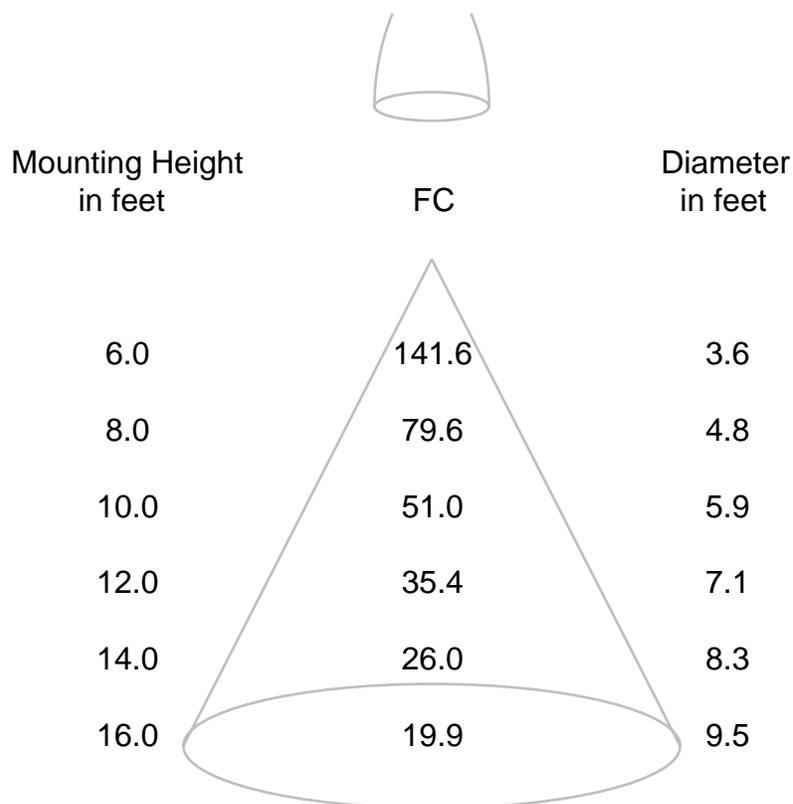
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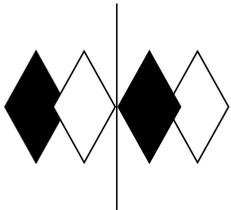
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## CONE OF LIGHT DIAGRAM

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





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NVLAP LAB CODE: 200925-0

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