

REPORT NUMBER: ITL88318-GONIOPHOTOMETRY

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ISSUE DATE: 09/22/16

PREPARED FOR: B-K LIGHTING, INC.

CATALOG NUMBER: AP-LED-x51-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, 57.7 WATTS, 0.483 AMPS

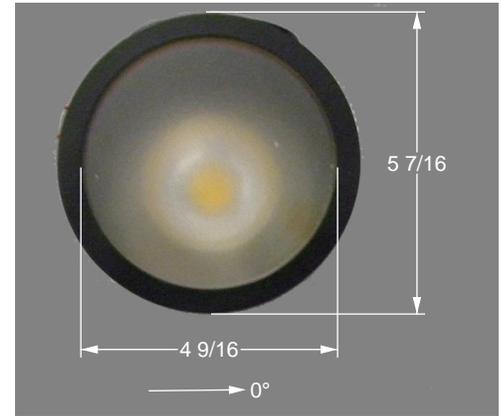
MOUNTING: WALL

LED DRIVER: THOMAS RESEARCH PRODUCTS PLED75W-054-C1400-D, DRIVER HAS MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST.

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	4947	
5	4883	460
15	4221	1163
25	2191	999
35	570	376
45	151	125
55	69	63
65	33	34
75	16	17
85	4	5
90	0	

ZONAL LUMEN SUMMARY		
ZONE	LUMENS	%FIXT
0- 30	2621	80.9
0- 40	2998	92.5
0- 60	3186	98.3
0- 90	3242	100.0
90-180	0	0.0
0-180	3242	100.0

EFFICACY = 56.2 lm/W

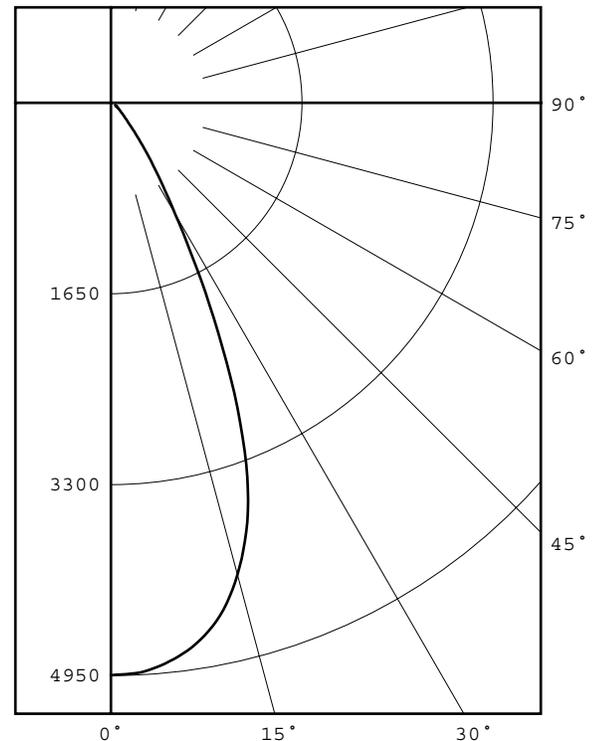
CIE TYPE - DIRECT

LUMINAIRE SPACING CRITERION = 0.72

BEAM ANGLE (50%) : 47.9 DEGREES

FIELD ANGLE (10%) : 72.2 DEGREES

LUMINOUS DIAMETER: 4.562



LUMINANCE DATA IN CANDELA/SQ M
ANGLE AVERAGE

IN DEG	
45	20246.
55	11405.
65	7403.
75	5861.
85	4351.

Checked J. VILLANUEVA

Approved R. BEATTIE
Lighting Engineer



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CANDELA DISTRIBUTION

0.0	4947
2.5	4934
5.0	4883
7.5	4799
10.0	4672
12.5	4487
15.0	4221
17.5	3886
20.0	3444
22.5	2855
25.0	2191
27.5	1590
30.0	1116
32.5	797
35.0	570
37.5	398
40.0	277
42.5	200
45.0	151
47.5	119
50.0	98
52.5	82
55.0	69
57.5	57
60.0	48
62.5	40
65.0	33
67.5	28
70.0	24
72.5	20
75.0	16
77.5	13
80.0	10
82.5	7
85.0	4
87.5	2
90.0	0



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	118
5- 10	342
10- 15	529
15- 20	634
20- 25	591
25- 30	408
30- 35	240
35- 40	136
40- 45	76
45- 50	49
50- 55	36
55- 60	27
60- 65	20
65- 70	14
70- 75	10
75- 80	7
80- 85	4
85- 90	1

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	460
0- 20	1622
0- 30	2621
0- 40	2998
0- 50	3123
0- 60	3186
0- 70	3220
0- 80	3237
0- 90	3242



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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	110	91	106	111	110	91	107	105	105	103	102	101	100	98	98	97	96	94
2	108	104	100	97	106	102	99	96	99	96	93	96	94	91	93	91	90	88	88	
3	103	97	93	89	101	96	92	88	93	90	87	91	88	85	89	86	84	83	83	
4	99	92	86	82	97	90	86	82	88	84	81	86	83	80	85	82	79	78	78	
5	94	86	81	77	93	85	80	77	84	79	76	82	78	75	81	77	75	73	73	
6	90	82	76	72	89	81	76	72	79	75	71	78	74	71	77	73	70	69	69	
7	86	77	72	68	85	77	72	68	76	71	67	74	70	67	73	70	67	65	65	
8	82	74	68	64	81	73	68	64	72	67	64	71	67	64	70	66	63	62	62	
9	79	70	65	61	78	70	64	61	69	64	61	68	64	60	67	63	60	59	59	
10	76	67	62	58	75	66	61	58	66	61	58	65	61	58	64	60	57	56	56	

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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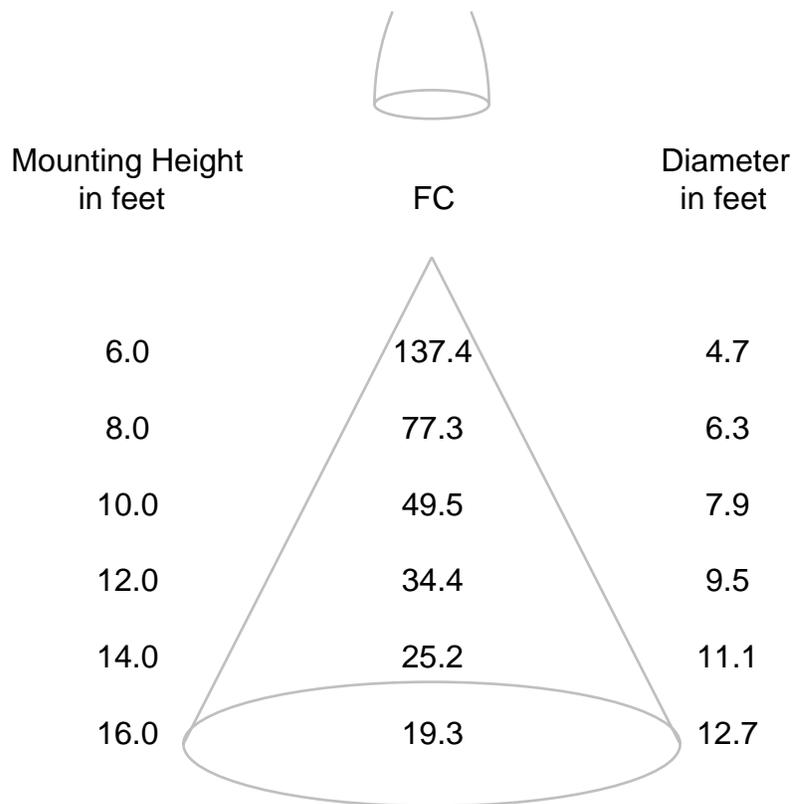
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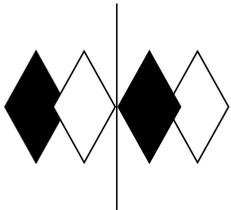
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CONE OF LIGHT DIAGRAM

(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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