

REPORT NUMBER: ITL88311-GONIOPHOTOMETRY

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ISSUE DATE: 09/20/16

PREPARED FOR: B-K LIGHTING, INC.

CATALOG NUMBER: AP-LED-x45-NSP-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 WHITE PLASTIC REFLECTOR WITH 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, 34.4 WATTS, 0.289 AMPS

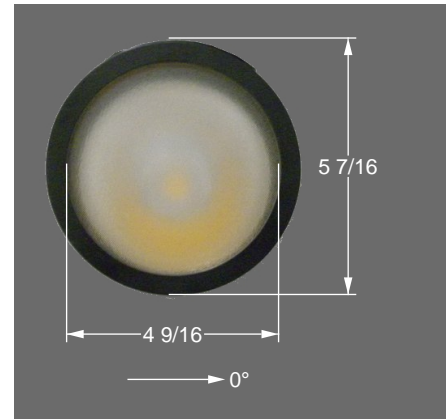
MOUNTING: WALL

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	30322	
5	21126	1528
15	2511	801
25	666	312
35	83	60
45	40	31
55	24	22
65	14	14
75	7	8
85	2	2
90	0	

ZONAL LUMEN SUMMARY		
ZONE	LUMENS	%FIXT
0- 30	2641	95.1
0- 40	2701	97.2
0- 60	2754	99.1
0- 90	2778	100.0
90-180	0	0.0
0-180	2778	100.0

EFFICACY = 80.8 lm/W

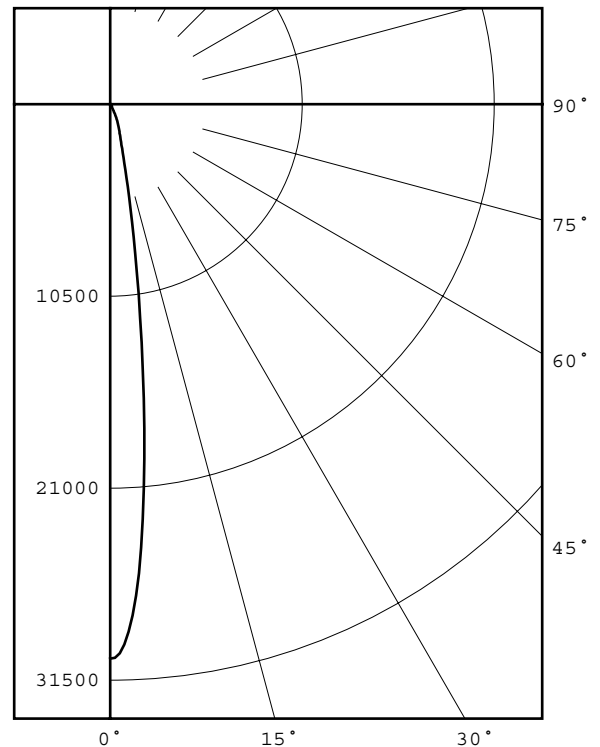
CIE TYPE - DIRECT

LUMINAIRE SPACING CRITERION = 0.24

BEAM ANGLE (50%) : 13.6 DEGREES

FIELD ANGLE (10%) : 27.9 DEGREES

LUMINOUS DIAMETER: 4.562



LUMINANCE DATA IN CANDELA/SQ M

ANGLE AVERAGE

IN DEG

45	5363.
55	3967.
65	3141.
75	2564.
85	2176.

Checked J. VILLANUEVA

Approved R. BEATTIE
Lighting Engineer



INDEPENDENT TESTING LABORATORIES, INC.
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CANDELA DISTRIBUTION

0.0	30322
0.5	30278
1.0	30028
1.5	29554
2.0	28857
2.5	27982
3.0	26912
3.5	25697
4.0	24295
4.5	22762
5.0	21126
5.5	19482
6.0	17813
6.5	16185
7.0	14608
7.5	13156
8.0	11779
8.5	10518
9.0	9352
9.5	8320
10.0	7372
10.5	6550
11.0	5811
11.5	5173
12.0	4604
12.5	4125
13.0	3693
13.5	3323
14.0	3010
14.5	2745
15.0	2511
16.0	2149
17.0	1881
18.0	1675
19.0	1507
20.0	1365
22.5	1032
25.0	666
27.5	361
30.0	198
32.5	121
35.0	83
37.5	64
40.0	52
42.5	45
45.0	40
47.5	35
50.0	31
52.5	28
55.0	24
57.5	21
60.0	18
62.5	16
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	613
5- 10	915
10- 15	503
15- 20	298
20- 25	213
25- 30	99
30- 35	38
35- 40	22
40- 45	17
45- 50	14
50- 55	12
55- 60	10
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	1528
0- 20	2329
0- 30	2641
0- 40	2701
0- 50	2732
0- 60	2754
0- 70	2768
0- 80	2775
0- 90	2778



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97
2	112	109	106	104	110	107	104	102	104	102	100	101	99	98	98	97	96	95
3	109	105	101	99	107	103	100	98	101	98	96	99	97	95	97	95	94	92
4	106	101	98	95	105	100	97	94	98	95	93	96	94	92	95	93	91	90
5	103	98	95	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88
6	101	96	92	89	100	95	91	89	94	91	88	92	90	88	91	89	87	86
7	99	93	90	87	98	93	89	87	92	89	86	91	88	86	90	87	86	85
8	97	91	88	85	96	91	87	85	90	87	85	89	86	84	88	86	84	83
9	95	89	86	83	94	89	86	83	88	85	83	87	85	83	87	84	83	82
10	93	87	84	82	93	87	84	82	87	84	82	86	83	81	85	83	81	80

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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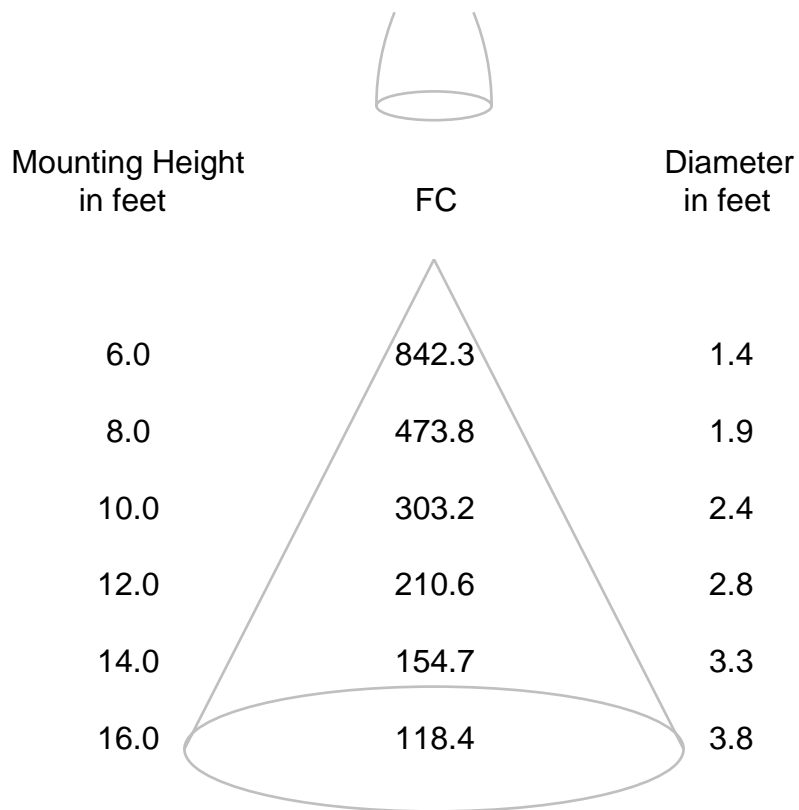
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CONE OF LIGHT DIAGRAM

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





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THE LIGHT CENTER OF THE INDUSTRY SINCE 1955



NVLAP LAB CODE: 200925-0

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