

REPORT NUMBER: ITL88312-GONIOPHOTOMETRY

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ISSUE DATE: 09/21/16

PREPARED FOR: B-K LIGHTING, INC.

CATALOG NUMBER: AP-LED-x45-NFL-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 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, 34.4 WATTS, 0.289 AMPS

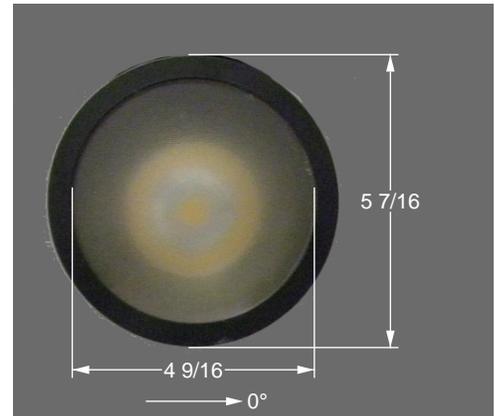
MOUNTING: WALL

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	6477	
5	5969	524
15	2921	813
25	922	434
35	173	119
45	63	51
55	30	27
65	15	15
75	8	8
85	2	2
90	0	

ZONAL ZONE	LUMEN LUMENS	SUMMARY %FIXT
0- 30	1771	88.9
0- 40	1890	94.8
0- 60	1967	98.7
0- 90	1993	100.0
90-180	0	0.0
0-180	1993	100.0

EFFICACY = 57.9 lm/W

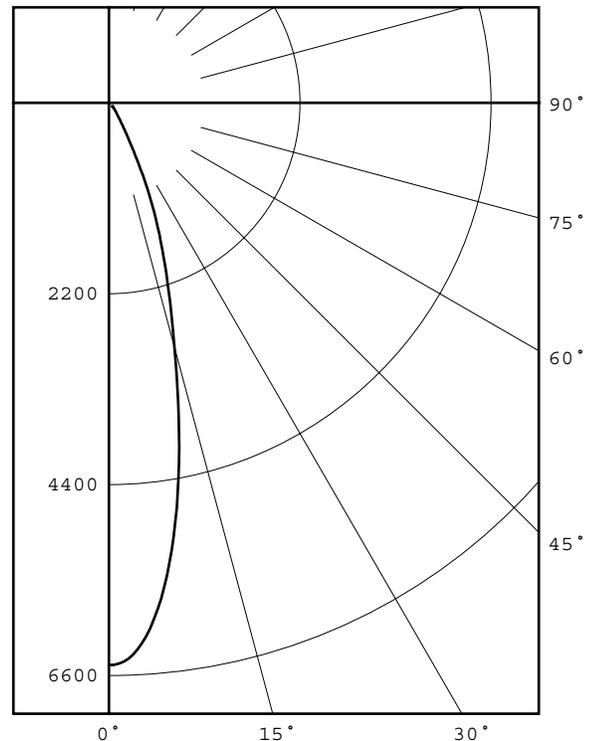
CIE TYPE - DIRECT

LUMINAIRE SPACING CRITERION = 0.47

BEAM ANGLE (50%) : 27.9 DEGREES

FIELD ANGLE (10%) : 53.9 DEGREES

LUMINOUS DIAMETER: 4.562



LUMINANCE DATA IN CANDELA/SQ M

ANGLE AVERAGE

IN DEG

45	8447.
55	4959.
65	3365.
75	2930.
85	2176.

Checked J. VILLANUEVA

Approved R. BEATTIE

Lighting Engineer



INDEPENDENT TESTING LABORATORIES, INC.
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CANDELA DISTRIBUTION

0.0	6477
0.5	6477
1.0	6465
1.5	6444
2.0	6411
2.5	6364
3.0	6305
3.5	6237
4.0	6159
4.5	6071
5.0	5969
5.5	5861
6.0	5745
6.5	5620
7.0	5486
7.5	5345
8.0	5198
8.5	5050
9.0	4888
9.5	4731
10.0	4566
10.5	4397
11.0	4226
11.5	4054
12.0	3881
12.5	3711
13.0	3542
13.5	3378
14.0	3218
14.5	3064
15.0	2921
16.0	2650
17.0	2410
18.0	2189
19.0	1986
20.0	1794
22.5	1355
25.0	922
27.5	570
30.0	359
32.5	244
35.0	173
37.5	128
40.0	99
42.5	78
45.0	63
47.5	52
50.0	43
52.5	36
55.0	30
57.5	25
60.0	21
62.5	18
65.0	15
67.5	13
70.0	11
72.5	9
75.0	8
77.5	6
80.0	5
82.5	3
85.0	2
87.5	1
90.0	0



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	149
5- 10	375
10- 15	435
15- 20	378
20- 25	282
25- 30	152
30- 35	75
35- 40	44
40- 45	29
45- 50	21
50- 55	16
55- 60	12
60- 65	9
65- 70	7
70- 75	5
75- 80	3
80- 85	2
85- 90	1

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	524
0- 20	1337
0- 30	1771
0- 40	1890
0- 50	1940
0- 60	1967
0- 70	1983
0- 80	1991
0- 90	1993



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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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91
3	106	100	96	93	104	99	95	92	96	93	91	94	92	89	92	90	88	87
4	102	96	91	88	100	94	90	87	92	89	86	90	87	85	89	86	84	83
5	98	91	87	83	97	90	86	83	89	85	82	87	84	81	86	83	81	79
6	95	87	83	79	93	87	82	79	85	81	78	84	81	78	83	80	77	76
7	91	84	79	76	90	83	79	76	82	78	75	81	77	75	80	77	74	73
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68
10	83	75	70	67	82	75	70	67	74	70	67	73	70	67	73	69	67	66

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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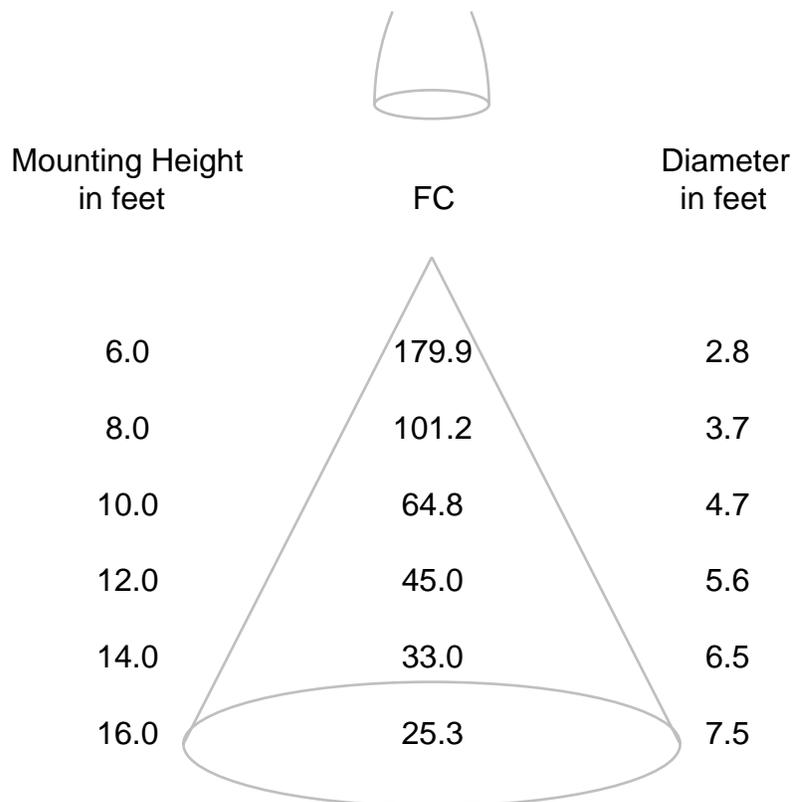
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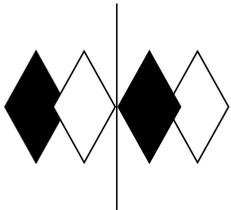
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CONE OF LIGHT DIAGRAM

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





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THE LIGHT CENTER OF THE INDUSTRY SINCE 1955



NVLAP LAB CODE: 200925-0

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