

Project Number
17.00221



HUBBELL
Lighting

Date
1/24/2017

LAB 6

Test Sample Description

Catalog Number: P350055-00930
Description: 1-Lt. DCLED Flush Mount

Test Method: IES LM-79-08 § 10
Preburn Time: 0:30
Time To Stabilize: 0:55
Total Operating Time: 2:15

Input Voltage (Volts): 120.1
Input Current (Amps): 0.167
Input Wattage (Watts): 19.8
Ambient Temp (°C): 25.6



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701 Millennium Boulevard
Greenville, SC 29607
www.hubbellighting.com

Checked: M. ELLMANN
Approved: D. BLACK

NVLAP[®]
TESTING
NVLAP LAB CODE: 201003-0

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LUMINAIRE: 1-Lt. DCLED Flush Mount

LAMP: 20- Nichia 3000K LEDs

REFRACTOR: Etched White Linen

MOUNTING: Ceiling

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.



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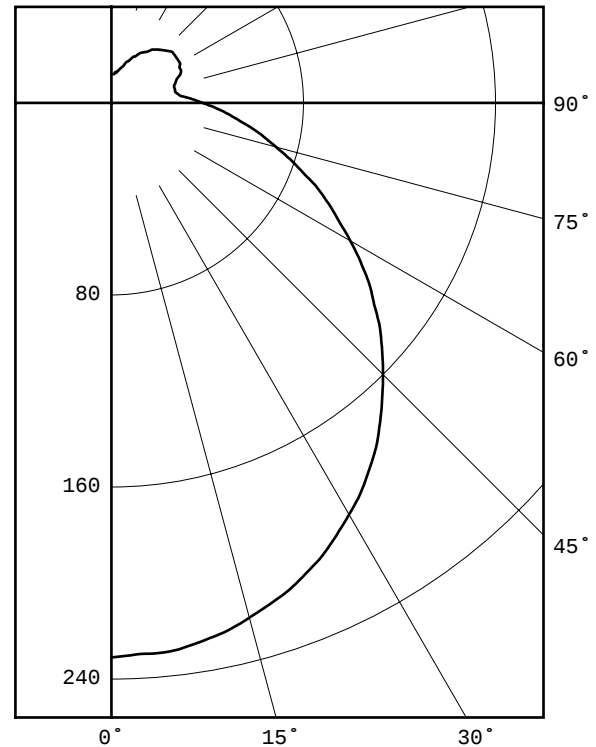
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DEG	CANDELA	LUMENS
0	231	
5	230	22
15	222	63
25	208	96
35	187	117
45	160	124
55	131	117
65	100	99
75	71	76
85	48	52
90	38	
95	30	34
105	27	29
115	32	31
125	33	30
135	31	24
145	26	17
155	21	10
165	15	4
175	12	1
180	12	

ZONAL ZONE	LUMEN	SUMMARY LUMENS	%FIXT
0- 30		180	19.1
0- 40		297	31.5
0- 60		538	56.9
0- 90		765	81.0
90-120		94	10.0
90-130		124	13.1
90-150		165	17.4
90-180		180	19.0
0-180		945	100.0

EFFICACY = 47.7 lm/W
CIE TYPE - SEMI-DIRECT
LUMINAIRE SPACING CRITERION = 1.28





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LUMINOUS DIAMETER: 12.000
HEIGHT OF SIDE : 3.000

LUMINANCE DATA IN CANDELA/SQ M
ANGLE AVERAGE
IN DEG

45	2352.
55	2152.
65	1927.
75	1718.
85	1627.



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CANDELA DISTRIBUTION

0.0	231
5.0	230
10.0	227
15.0	222
20.0	216
25.0	208
30.0	198
35.0	187
40.0	174
45.0	160
50.0	146
55.0	131
60.0	115
65.0	100
70.0	85
75.0	71
80.0	59
85.0	48
90.0	38
95.0	30
100.0	27
105.0	27
110.0	29
115.0	32
120.0	33
125.0	33
130.0	33
135.0	31
140.0	29
145.0	26
150.0	24
155.0	21
160.0	18
165.0	15
170.0	13
175.0	12
180.0	12



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5-DEGREE		
ZONAL	LUMEN	SUMMARY
0- 5		6
5- 10		16
10- 15		27
15- 20		36
20- 25		44
25- 30		51
30- 35		57
35- 40		60
40- 45		62
45- 50		62
50- 55		60
55- 60		57
60- 65		52
65- 70		47
70- 75		41
75- 80		35
80- 85		29
85- 90		24
90- 95		19
95-100		15
100-105		14
105-110		15
110-115		16
115-120		16
120-125		15
125-130		14
130-135		13
135-140		11
140-145		9
145-150		7
150-155		6
155-160		4
160-165		3
165-170		2
170-175		1
175-180		0

10-DEGREE		
ZONAL	LUMEN	SUMMARY
0- 10		22
10- 20		63
20- 30		96
30- 40		117
40- 50		124
50- 60		117
60- 70		99
70- 80		76
80- 90		52
90-100		34
100-110		29
110-120		31
120-130		30
130-140		24
140-150		17
150-160		10
160-170		4
170-180		1



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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	115	115	115	115	110	110	110	110	101	110	110	92	92	92	85	85	85	81
1	102	97	92	88	98	93	88	84	85	81	78	78	75	72	71	69	67	64
2	92	84	76	70	88	80	73	68	73	68	63	67	63	59	61	58	55	52
3	84	73	64	57	80	70	62	56	64	58	52	59	53	49	54	49	46	43
4	77	64	55	48	73	62	53	47	57	50	44	52	46	41	48	43	39	36
5	70	57	48	41	67	55	46	40	51	43	38	47	40	36	43	38	34	31
6	65	51	42	36	62	49	41	35	45	38	33	42	36	31	39	33	29	27
7	60	46	37	31	57	45	36	30	41	34	29	38	32	27	35	30	26	24
8	56	42	34	28	53	41	33	27	38	31	26	35	29	24	32	27	23	21
9	52	38	30	25	49	37	29	24	35	28	23	32	26	22	30	25	21	19
10	49	35	28	22	46	34	27	22	32	25	21	30	24	20	28	23	19	17

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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Goniophotometer Calibration

Calibration Lamp: GE 1000W, 120V, T6, CL (FEL)

Lamp Number: ITL78966-1000-38

Calibration Current: 8.300 Amps DC

Total Luminous Flux: 25889.0 Lumens

Calibration Date: 09/02/2016

Test Equipment Used

<i>Instrument</i>	<i>Manufacturer / Model</i>	<i>S/N</i>	<i>Calibration Due:</i>
<i>Goniophotometer</i>	ITL / HLI LAB 6 - Test Distance: 31.3'	N/A	N/A
<i>Power Analyzer</i>	Yokogawa / WT 332	C2QA27076V	11/2/2017
<i>Power Source</i>	Voltage-Regulated House Power	N/A	N/A
<i>Thermometer</i>	National Instruments / USB-TC01	1912745	11/2/2017

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