

Project Number
17.00843



Date
4/4/2017

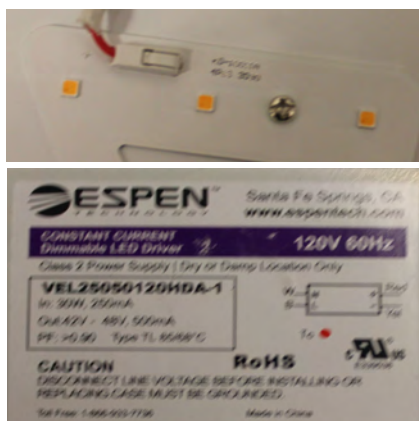
LAB 1

Test Sample Description

Catalog Number: p350003-020-30
Description: 1-Lt. DC LED Flush Mount

Test Method: IES LM-79-08 § 10
Preburn Time: 0:00
Time To Stabilize: 0:45
Total Operating Time: 1:57

Input Voltage (Volts): 120.0
Input Current (Amps): 0.230
Input Wattage (Watts): 27.3
Ambient Temp (°C): 24.2
PF @ 277V: 0.952
THD @ 277V (%): 12.29



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Checked: M. HALL
Approved: D. BLACK



This report shall not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.



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LUMINAIRE: 1-Lt. DC LED Flush Mount

LAMP CAT. NO.: LG/LEDLEMS36X90LZ3A00

LAMP: 32 - 3000K LEDs

INPUT ELECTRICAL: 120.0 VOLTS, 27.3 WATTS, 0.230 AMPS

MOUNTING: Ceiling

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.



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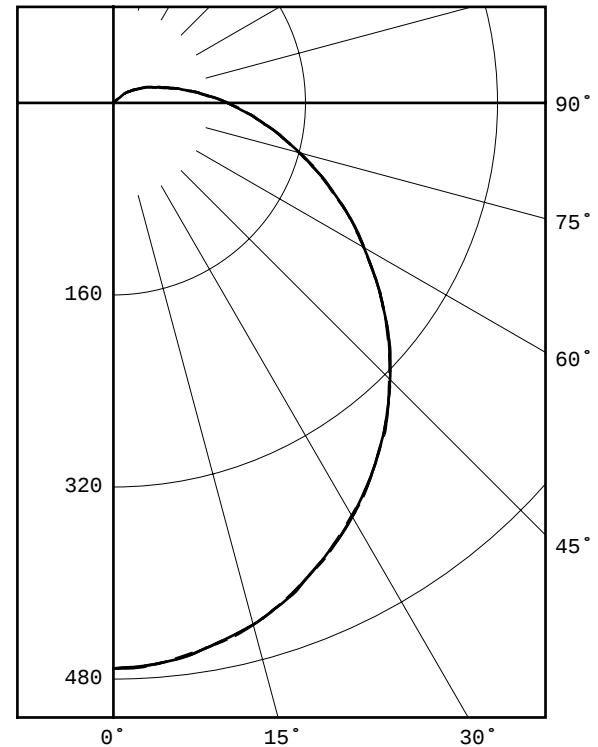
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CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	FLUX
0	471	471	471	471	471	
5	468	469	468	468	468	44
15	450	450	450	450	450	127
25	417	417	417	417	418	192
35	376	376	376	376	376	235
45	326	325	326	325	325	251
55	270	270	270	270	270	241
65	214	214	214	213	214	212
75	161	161	161	160	160	170
85	115	115	115	115	115	125
90	95	95	95	95	95	
95	77	76	76	76	76	84
105	48	48	48	48	48	52
115	30	30	31	30	31	30
125	17	17	17	17	17	16
135	0	0	0	0	0	1
145	0	0	0	0	0	0
155	0	0	0	0	0	0
165	0	0	0	0	0	0
175	0	0	0	0	0	0
180	0	0	0	0	0	0

ZONAL ZONE	LUMEN	SUMMARY LUMENS	%FIXT
0- 30		364	20.4
0- 40		599	33.6
0- 60		1092	61.3
0- 90		1599	89.7
90-120		166	9.3
90-130		182	10.2
90-150		183	10.3
90-180		183	10.3
0-180		1782	100.0

EFFICACY = 65.3 lm/W
CIE TYPE - SEMI-DIRECT
PLANE : 0-DEG 90-DEG
SPACING CRITERIA : 1.26 1.26



LEGEND
0-deg - - - - -
45-deg - - - - -
90-deg - - - - -



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LUMINOUS DIAMETER: 12.000
HEIGHT OF SIDE : 6.000

LUMINANCE DATA IN CANDELA/SQ M
ANGLE AVERAGE AVERAGE AVERAGE
IN DEG 0-DEG 45-DEG 90-DEG
45 3861. 3861. 3849.
55 3379. 3379. 3379.
65 2934. 2934. 2934.
75 2525. 2525. 2510.
85 2185. 2185. 2185.



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CANDELA DISTRIBUTION
LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	471	471	471	471	471
5.0	468	469	468	468	468
10.0	460	460	460	460	460
15.0	450	450	450	450	450
20.0	435	435	436	435	435
25.0	417	417	417	417	418
30.0	397	397	398	397	398
35.0	376	376	376	376	376
40.0	352	352	352	352	353
45.0	326	325	326	325	325
50.0	298	298	299	298	299
55.0	270	270	270	270	270
60.0	241	241	241	241	241
65.0	214	214	214	213	214
70.0	186	187	187	187	187
75.0	161	161	161	160	160
80.0	137	136	137	136	137
85.0	115	115	115	115	115
90.0	95	95	95	95	95
95.0	77	76	76	76	76
100.0	61	61	61	61	61
105.0	48	48	48	48	48
110.0	38	38	38	38	38
115.0	30	30	31	30	31
120.0	23	23	23	23	23
125.0	17	17	17	17	17
130.0	12	12	12	12	12
135.0	0	0	0	0	0
140.0	0	0	0	0	0
145.0	0	0	0	0	0
150.0	0	0	0	0	0
155.0	0	0	0	0	0
160.0	0	0	0	0	0
165.0	0	0	0	0	0
170.0	0	0	0	0	0
175.0	0	0	0	0	0
180.0	0	0	0	0	0



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5-DEGREE		
ZONAL	LUMEN	SUMMARY
0- 5		11
5- 10		33
10- 15		54
15- 20		73
20- 25		89
25- 30		103
30- 35		114
35- 40		121
40- 45		125
45- 50		126
50- 55		123
55- 60		118
60- 65		111
65- 70		101
70- 75		91
75- 80		79
80- 85		68
85- 90		57
90- 95		47
95-100		37
100-105		29
105-110		22
110-115		17
115-120		13
120-125		9
125-130		6
130-135		1
135-140		0
140-145		0
145-150		0
150-155		0
155-160		0
160-165		0
165-170		0
170-175		0
175-180		0

10-DEGREE		
ZONAL	LUMEN	SUMMARY
0- 10		44
10- 20		127
20- 30		192
30- 40		235
40- 50		251
50- 60		241
60- 70		212
70- 80		170
80- 90		125
90-100		84
100-110		52
110-120		30
120-130		16
130-140		1
140-150		0
150-160		0
160-170		0
170-180		0



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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	117	117	117	117	113	113	113	113	105	105	105	99	99	99	93	93	93	90
1	104	98	93	88	100	94	90	85	88	84	81	83	79	76	77	75	72	69
2	93	84	76	70	90	81	74	68	76	70	65	71	66	62	66	62	59	56
3	85	73	64	57	81	71	62	56	66	59	53	62	56	51	58	53	49	46
4	77	64	55	48	74	62	53	47	58	51	45	55	48	43	51	46	41	39
5	71	57	48	41	68	55	46	40	52	44	38	49	42	37	46	40	36	33
6	65	51	42	35	63	50	41	35	47	39	33	44	37	32	42	36	31	29
7	60	46	37	31	58	45	36	30	42	35	29	40	33	29	38	32	28	25
8	56	42	33	27	54	41	33	27	39	31	26	37	30	25	35	29	25	23
9	52	39	30	24	50	38	30	24	36	29	23	34	27	23	32	26	22	20
10	49	36	27	22	47	35	27	22	33	26	21	31	25	21	30	24	20	18

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: 09/09/2016

Test Equipment Used

<i>Instrument</i>	<i>Manufacturer / Model</i>	<i>S/N</i>	<i>Calibration Due:</i>
<i>Goniophotometer</i>	ITL / HLI LAB 1 - Test Distance: 31.75'	N/A	N/A
<i>Power Analyzer</i>	Yokogawa / WT 332	C2QA27071V	11/2/2017
<i>Power Source</i>	Voltage-Regulated House Power	N/A	N/A
<i>Thermometer</i>	National Instruments / USB-TC01	176F47B	11/7/2017

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