

Project Number
17.00209



HUBBELL
Lighting

Date
1/17/2017

LAB 5

Test Sample Description

Catalog Number: P3925-09
Description: Semiflush Ceiling Mount with Diffused Lens

Test Method: IES LM-79-08 § 10
Preburn Time: 0:45
Time To Stabilize: 13:00
Total Operating Time: 14:00

Input Voltage (Volts): 119.9
Input Current (Amps): 0.339
Input Wattage (Watts): 22.3
Ambient Temp (°C): 26.0



Hubbell Lighting, Inc.

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

Checked: R. WILLIAMS
Approved: D. BLACK



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LUMINAIRE: Semiflush Ceiling Mount with Diffused Lens

LAMP CAT. NO.: 13W E1/mdTQST2

LAMP: 2 - 2700K 13W SPIRAL CFL E-26 Base

BALLAST: Self-Ballasted

MOUNTING: Ceiling

NOTE:: NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.



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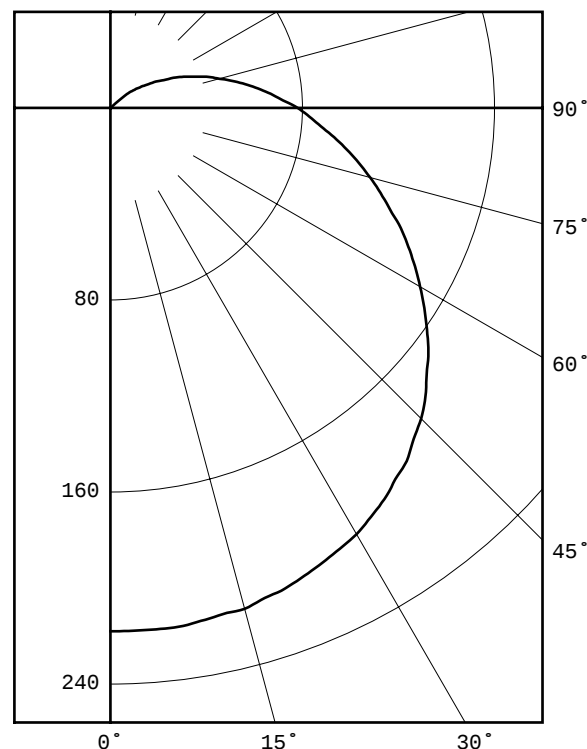
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DEG	CANDELA	LUMENS
0	218	
5	218	21
15	216	61
25	209	97
35	199	125
45	183	141
55	161	144
65	137	136
75	112	118
85	88	97
90	78	
95	67	73
105	47	50
115	30	30
125	15	14
135	0	1
145	0	0
155	0	0
165	0	0
175	0	0
180	0	

ZONAL ZONE	LUMEN	SUMMARY LUMENS	%FIXT
0- 30		178	16.1
0- 40		303	27.4
0- 60		588	53.2
0- 90		939	84.8
90-120		153	13.8
90-130		167	15.1
90-150		168	15.2
90-180		168	15.2
0-180		1107	100.0

EFFICACY = 49.6 lm/W
CIE TYPE - SEMI-DIRECT
LUMINAIRE SPACING CRITERION = 1.40





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LUMINOUS DIAMETER: 13.000
HEIGHT OF SIDE : 4.000

LUMINANCE DATA IN CANDELA/SQ M
ANGLE AVERAGE
IN DEG

45	2171.
55	2102.
65	2057.
75	2052.
85	2152.



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CANDELA DISTRIBUTION

0.0	218
5.0	218
10.0	217
15.0	216
20.0	213
25.0	209
30.0	205
35.0	199
40.0	192
45.0	183
50.0	172
55.0	161
60.0	149
65.0	137
70.0	124
75.0	112
80.0	100
85.0	88
90.0	78
95.0	67
100.0	57
105.0	47
110.0	38
115.0	30
120.0	22
125.0	15
130.0	9
135.0	0
140.0	0
145.0	0
150.0	0
155.0	0
160.0	0
165.0	0
170.0	0
175.0	0
180.0	0



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5-DEGREE		
ZONAL	LUMEN	SUMMARY
0- 5		5
5- 10		16
10- 15		26
15- 20		35
20- 25		44
25- 30		52
30- 35		59
35- 40		65
40- 45		69
45- 50		72
50- 55		72
55- 60		72
60- 65		70
65- 70		66
70- 75		62
75- 80		57
80- 85		51
85- 90		45
90- 95		40
95-100		34
100-105		28
105-110		22
110-115		17
115-120		12
120-125		8
125-130		5
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		21
10- 20		61
20- 30		97
30- 40		125
40- 50		141
50- 60		144
60- 70		136
70- 80		118
80- 90		97
90-100		73
100-110		50
110-120		30
120-130		14
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	115	115	115	115	111	111	111	111	103	103	103	95	95	95	88	88	88	85
1	102	95	90	84	97	91	86	82	84	80	76	78	74	71	72	69	66	63
2	91	81	73	66	87	78	70	64	72	65	60	66	61	56	61	57	53	50
3	82	70	61	53	78	67	59	52	62	55	49	57	51	46	52	47	43	40
4	75	61	51	44	71	59	50	43	54	47	41	50	44	38	46	41	36	33
5	68	54	44	37	65	52	43	36	48	40	34	45	38	33	41	35	31	28
6	63	48	39	32	60	47	38	31	43	35	30	40	33	28	37	31	27	24
7	58	44	34	28	55	42	33	27	39	31	26	36	30	25	34	28	23	21
8	54	40	31	24	51	38	30	24	36	28	23	33	27	22	31	25	21	19
9	50	36	28	22	48	35	27	21	33	25	20	30	24	20	28	23	19	17
10	47	33	25	20	45	32	24	19	30	23	18	28	22	18	26	21	17	15

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: 09/08/2016

Test Equipment Used

<i>Instrument</i>	<i>Manufacturer / Model</i>	<i>S/N</i>	<i>Calibration Due:</i>
<i>Goniophotometer</i>	ITL / HLI LAB 5 - Test Distance: 56.0'	N/A	N/A
<i>Power Analyzer</i>	Yokogawa / WT 332	C2QA27072V	11/02/2017
<i>Power Source</i>	Voltage-Regulated House Power	N/A	N/A
<i>Thermometer</i>	National Instruments / USB-TC01	1912722	11/02/2017

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