

Project Number
17.00208



HUBBELL
Lighting

Date
1/18/2017

LAB 6

Test Sample Description

Catalog Number: P3855-09
Description: 2-100W MED SEMI-FLSH

Test Method: IES LM-79-08 § 10
Preburn Time: 12:30
Time To Stabilize: 1:40
Total Operating Time: 14:30

Input Voltage (Volts): 119.9
Input Current (Amps): 0.370
Input Wattage (Watts): 26.1
Ambient Temp (°C): 25.1



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Greenville, SC 29607
www.hubbellighting.com

Checked: M. ELLMANN
Approved: D. BLACK





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REPORT NUMBER: 17.00208

PAGE: 2 OF 8

ISSUE DATE: 01/18/17

PREPARED FOR: PROGRESS

CATALOG NUMBER: P3855-09

LUMINAIRE: 2-100W MED SEMI-FLSH

LAMP CAT. NO.: EL/mdRQS 13W T2 120v 60Hz

LAMP: 2 - 2700K Philips SPIRAL CFLs;E26 base;210mA

BALLAST: Self-Ballasted

MOUNTING: Ceiling

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.



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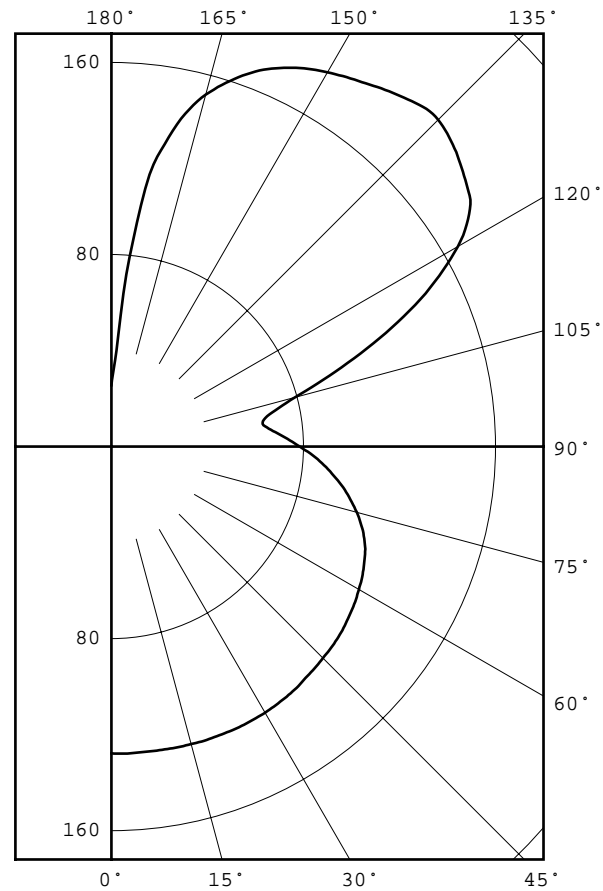
REPORT NUMBER: 17.00208
ISSUE DATE: 01/18/17
PREPARED FOR: PROGRESS
CATALOG NUMBER: P3855-09

PAGE: 3 OF 8

DEG	CANDELA	LUMENS
0	128	
5	128	12
15	128	36
25	128	59
35	127	80
45	125	97
55	121	109
65	116	115
75	106	112
85	89	97
90	78	
95	69	76
105	79	87
115	140	137
125	182	162
135	193	148
145	185	116
155	174	81
165	152	43
175	72	9
180	26	

ZONAL LUMEN ZONE	SUMMARY LUMENS	%FIXT
0- 30	108	6.9
0- 40	188	11.9
0- 60	393	25.0
0- 90	716	45.5
90-120	300	19.0
90-130	461	29.3
90-150	725	46.1
90-180	858	54.5
0-180	1574	100.0

EFFICACY = 60.3 lm/W
CIE TYPE - GENERAL DIFFUSE
LUMINAIRE SPACING CRITERION = 1.52





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CATALOG NUMBER: P3855-09

PAGE: 4 OF 8

LUMINOUS DIAMETER: 13.250
HEIGHT OF SIDE : 5.000

LUMINANCE DATA IN CANDELA/SQ M
ANGLE AVERAGE
IN DEG

45	1338.
55	1411.
65	1521.
75	1645.
85	1766.



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REPORT NUMBER: 17.00208
ISSUE DATE: 01/18/17
PREPARED FOR: PROGRESS
CATALOG NUMBER: P3855-09

PAGE: 5 OF 8

CANDELA DISTRIBUTION

0.0	128
5.0	128
10.0	128
15.0	128
20.0	128
25.0	128
30.0	128
35.0	127
40.0	126
45.0	125
50.0	123
55.0	121
60.0	119
65.0	116
70.0	112
75.0	106
80.0	98
85.0	89
90.0	78
95.0	69
100.0	65
105.0	79
110.0	108
115.0	140
120.0	167
125.0	182
130.0	188
135.0	193
140.0	190
145.0	185
150.0	180
155.0	174
160.0	165
165.0	152
170.0	128
175.0	72
180.0	26



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PREPARED FOR: PROGRESS
CATALOG NUMBER: P3855-09

PAGE: 6 OF 8

5-DEGREE		
ZONAL	LUMEN	SUMMARY
0- 5		3
5- 10		9
10- 15		15
15- 20		21
20- 25		27
25- 30		32
30- 35		38
35- 40		42
40- 45		46
45- 50		50
50- 55		53
55- 60		56
60- 65		57
65- 70		58
70- 75		57
75- 80		55
80- 85		51
85- 90		46
90- 95		40
95-100		36
100-105		38
105-110		49
110-115		63
115-120		75
120-125		81
125-130		81
130-135		77
135-140		71
140-145		62
145-150		54
150-155		45
155-160		36
160-165		26
165-170		17
170-175		8
175-180		1

10-DEGREE		
ZONAL	LUMEN	SUMMARY
0- 10		12
10- 20		36
20- 30		59
30- 40		80
40- 50		97
50- 60		109
60- 70		115
70- 80		112
80- 90		97
90-100		76
100-110		87
110-120		137
120-130		162
130-140		148
140-150		116
150-160		81
160-170		43
170-180		9



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CATALOG NUMBER: P3855-09

PAGE: 7 OF 8

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	
0	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	46
1	94	88	83	79	85	80	76	72	66	63	60	53	51	49	41	39	38	32
2	84	75	68	62	76	69	62	57	56	51	47	45	41	38	34	32	29	24
3	76	65	57	50	69	59	52	46	49	43	38	39	34	31	29	26	24	19
4	69	57	48	41	62	52	44	38	43	36	32	34	29	26	26	22	20	16
5	63	50	41	35	57	46	38	32	38	31	27	30	25	22	23	19	17	13
6	58	45	36	30	52	41	33	27	34	27	23	27	22	18	20	17	14	11
7	53	40	32	26	48	37	29	24	30	24	20	24	20	16	19	15	12	9
8	49	36	28	22	45	33	26	21	27	22	17	22	17	14	17	13	11	8
9	46	33	25	20	42	30	23	18	25	19	15	20	16	12	16	12	10	7
10	43	30	22	17	39	28	21	16	23	17	14	19	14	11	14	11	9	7

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