

Project Number
15.00819



Date
5/22/2015

LAB 1

Test Sample Description

Catalog Number: P3675-0930K9
Description: 2-Lt. LED Flush Mount w/ 3 - HAL 17 W Modules

Test Method: IES LM-79-08 § 10
Preburn Time: 00:10
Time To Stabilize: 2:25
Total Operating Time: 3:01

Input Voltage (Volts): 119.9
Input Current (Amps): 0.448
Input Wattage (Watts): 49.7
Ambient Temp (°C): 25.1



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Checked: D. ROBBINS
Approved: M. WASHBURN





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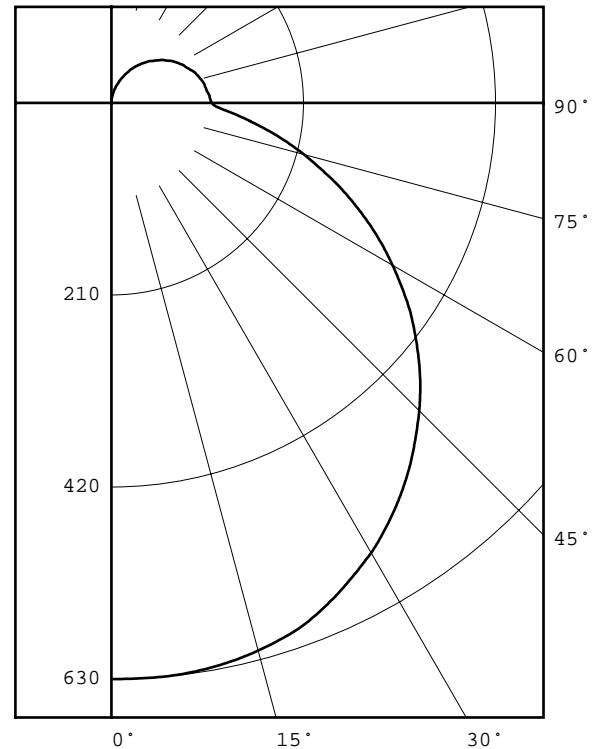


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ISSUE DATE: 05/22/15
PREPARED FOR: PROGRESS
CATALOG NUMBER: P3675-0930K9
LUMINAIRE: 2-Lt. LED Flush Mount w/ 3 - HAL 17 W Modules
LAMP CAT. NO.: 93047261-4130
LAMP: 120 - NICHIA 3000K LEDs
REFRACTOR: Acrylic Diffuser Part# 93051450
MOUNTING: Ceiling
NOTE: DATA SHOWN IS ABSOLUTE FOR THE
SAMPLE PROVIDED.

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DEG	CANDELA	LUMENS
0	630	
5	630	60
15	620	175
25	590	272
35	541	339
45	476	367
55	399	356
65	310	307
75	218	231
85	134	149
90	109	
95	107	116
105	101	107
115	91	91
125	80	72
135	65	51
145	50	32
155	33	16
165	18	5
175	7	1
180	0	

ZONAL LUMEN SUMMARY		
ZONE	LUMENS	%FIXT
0- 30	508	18.5
0- 40	846	30.8
0- 60	1570	57.2
0- 90	2256	82.2
90-120	314	11.4
90-130	385	14.0
90-150	468	17.0
90-180	489	17.8
0-180	2746	100.0



TOTAL INPUT WATTS = 49.8
EFFICACY = 55.1 Lm/W
CIE TYPE - SEMI-DIRECT
LUMINAIRE SPACING CRITERION = 1.3



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LUMINOUS DIAMETER: 18.000
HEIGHT OF SIDE : 3.750

LUMINANCE DATA IN CANDELA/SQ METER

ANGLE AVERAGE

IN DEG

45	3240.
55	3072.
65	2847.
75	2577.
85	2322.



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CANDELA DISTRIBUTION

	0.0
0.0	630
5.0	630
10.0	627
15.0	620
20.0	609
25.0	590
30.0	568
35.0	541
40.0	510
45.0	476
50.0	439
55.0	399
60.0	355
65.0	310
70.0	264
75.0	218
80.0	174
85.0	134
90.0	109
95.0	107
100.0	104
105.0	101
110.0	97
115.0	91
120.0	86
125.0	80
130.0	73
135.0	65
140.0	58
145.0	50
150.0	42
155.0	33
160.0	25
165.0	18
170.0	11
175.0	7
180.0	0



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ZONAL LUMEN SUMMARY

0- 5	15.
5- 10	45.
10- 15	74.
15- 20	101.
20- 25	126.
25- 30	146.
30- 35	163.
35- 40	175.
40- 45	182.
45- 50	185.
50- 55	182.
55- 60	174.
60- 65	162.
65- 70	145.
70- 75	126.
75- 80	105.
80- 85	83.
85- 90	65.
90- 95	59.
95-100	57.
100-105	55.
105-110	52.
110-115	48.
115-120	43.
120-125	38.
125-130	33.
130-135	28.
135-140	23.
140-145	18.
145-150	14.
150-155	9.
155-160	6.
160-165	4.
165-170	2.
170-175	1.
175-180	0.



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	15
5- 10	45
10- 15	74
15- 20	101
20- 25	126
25- 30	146
30- 35	163
35- 40	175
40- 45	182
45- 50	185
50- 55	182
55- 60	174
60- 65	162
65- 70	145
70- 75	126
75- 80	105
80- 85	83
85- 90	65
90- 95	59
95-100	57
100-105	55
105-110	52
110-115	48
115-120	43
120-125	38
125-130	33
130-135	28
135-140	23
140-145	18
145-150	14
150-155	9
155-160	6
160-165	4
165-170	2
170-175	1
175-180	0

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	60
0- 20	235
0- 30	508
0- 40	846
0- 50	1214
0- 60	1570
0- 70	1877
0- 80	2108
0- 90	2256
0-100	2373
0-110	2479
0-120	2570
0-130	2642
0-140	2692
0-150	2724
0-160	2740
0-170	2745
0-180	2746



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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	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	110	110	110	110	101	101	101	93	93	93	86	86	86	82
1	103	97	92	88	98	93	89	85	85	82	79	79	76	73	72	70	68	64
2	93	83	76	70	88	80	73	67	74	68	63	68	63	59	62	58	55	52
3	84	73	64	57	80	70	62	55	64	57	52	59	53	49	54	50	46	43
4	76	64	55	48	73	61	53	46	56	49	44	52	46	41	48	43	39	36
5	70	57	47	41	67	54	46	39	50	43	37	46	40	35	43	38	33	31
6	64	51	42	35	61	49	40	34	45	38	32	42	36	31	39	33	29	27
7	60	46	37	31	57	44	36	30	41	34	28	38	32	27	35	30	26	23
8	55	42	33	27	53	40	32	26	37	30	25	35	29	24	32	27	23	21
9	52	38	30	24	49	37	29	24	34	27	23	32	26	22	30	24	21	19
10	48	35	27	22	46	34	26	21	32	25	20	30	24	19	28	22	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 LUMINAIRE 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: 25753.0 Lumens

Calibration Date: 12/02/2014

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	11/12/2015
<i>Power Source</i>	Voltage-Regulated House Power	N/A	N/A
<i>Thermometer</i>	National Instruments / USB-TC01	176F4E3	11/11/2015

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