

Project Number
17.01054



HUBBELL
Lighting

Date
4/12/2017

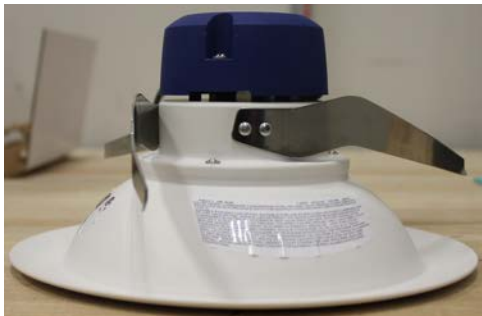
LAB 1

Test Sample Description

Catalog Number: P8071-2830K
Description: 6" Round LED Retrofit

Test Method: IES LM-79-08 § 10
Preburn Time: 0:05
Time To Stabilize: 0:45
Total Operating Time: 1:26

Input Voltage (Volts): 120.2
Input Current (Amps): 0.086
Input Wattage (Watts): 10.0
Ambient Temp (°C): 24.2



Hubbell Lighting, Inc.

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

Checked: M. HALL
Approved: P. McCARTHY



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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PREPARED FOR: PROGRESS

CATALOG NUMBER: P8071-2830K

LUMINAIRE: 6" Round LED Retrofit

LAMP CAT. NO.: n/a

LAMP: 1- 3000K LED

MOUNTING: Ceiling

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.



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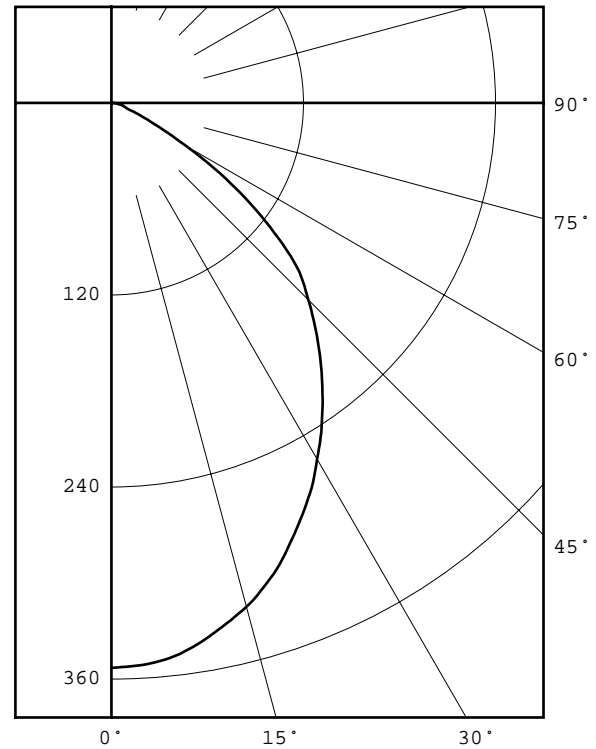
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DEG	CANDELA	LUMENS
0	353	
5	350	33
15	326	92
25	283	130
35	230	144
45	174	134
55	99	88
65	25	27
75	8	8
85	2	3
90	0	

ZONAL ZONE	LUMEN LUMENS	SUMMARY LUMENS	%FIXT
0- 30		255	38.7
0- 40		399	60.5
0- 60		620	94.2
0- 90		659	100.0

EFFICACY = 65.9 lm/W
CIE TYPE - DIRECT
LUMINAIRE SPACING CRITERION = 1.11





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LUMINOUS DIAMETER: 6.000

LUMINANCE DATA IN CANDELA/SQ M

ANGLE AVERAGE

IN DEG

45	13490.
55	9462.
65	3243.
75	1694.
85	1258.



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CANDELA DISTRIBUTION

0.0	353
5.0	350
10.0	340
15.0	326
20.0	307
25.0	283
30.0	257
35.0	230
40.0	202
45.0	174
50.0	143
55.0	99
60.0	54
65.0	25
70.0	11
75.0	8
80.0	5
85.0	2
90.0	0



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5-DEGREE ZONAL LUMEN SUMMARY		
0- 5		8
5- 10		25
10- 15		39
15- 20		52
20- 25		62
25- 30		68
30- 35		72
35- 40		72
40- 45		70
45- 50		64
50- 55		53
55- 60		35
60- 65		19
65- 70		9
70- 75		5
75- 80		4
80- 85		2
85- 90		1

10-DEGREE ZONAL LUMEN SUMMARY		
0- 10		33
10- 20		92
20- 30		130
30- 40		144
40- 50		134
50- 60		88
60- 70		27
70- 80		8
80- 90		3



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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	119	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	102	102	102	100
1	111	108	104	101	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89	89
2	103	97	91	87	87	101	95	90	86	92	87	84	88	85	82	86	83	80	78	78
3	96	87	80	75	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69	69
4	89	79	71	65	65	87	77	70	65	75	69	64	73	68	63	71	66	63	61	61
5	82	71	63	58	58	80	70	63	57	68	62	57	66	61	56	65	60	56	54	54
6	77	65	57	51	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48	48
7	71	59	52	46	46	70	59	51	46	57	51	46	56	50	45	55	49	45	43	43
8	67	55	47	42	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39	39
9	63	50	43	38	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36	36
10	59	47	39	35	35	58	46	39	35	45	39	34	44	39	34	44	38	34	33	33

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: 12/05/2016

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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