

Project Number
17.01934



Date
7/21/2017

Lab 1
Sphere

Test Sample Description

Catalog Number: P90622827K9
Description: Large Mesh Design Track Lighting

Photometry

Test Method:	IES LM-79-08 § 10
Preburn Time:	00:05
Time To Stabilize:	0:65
Total Operating Time:	2:12
Input Voltage (Volts):	120.0
Input Current (Amps):	0.088
Input Wattage (Watts):	10.4
Ambient Temp (°C):	24.1

Sphere

Test Method:	IES LM-79-08 § 9.1 & 12.1
Preburn Time:	0:10
Time To Stabilize:	1:26
Total Operating Time:	1:36
Input Voltage (Volts):	120.0
Input Current (Amps):	0.088
Input Wattage (Watts):	10.4
Ambient Temp (°C):	24.0



Hubbell Lighting, Inc.

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

Checked (sphere): B. LEE
Checked (photometry): D. ROBBINS
Approved: D. BLACK



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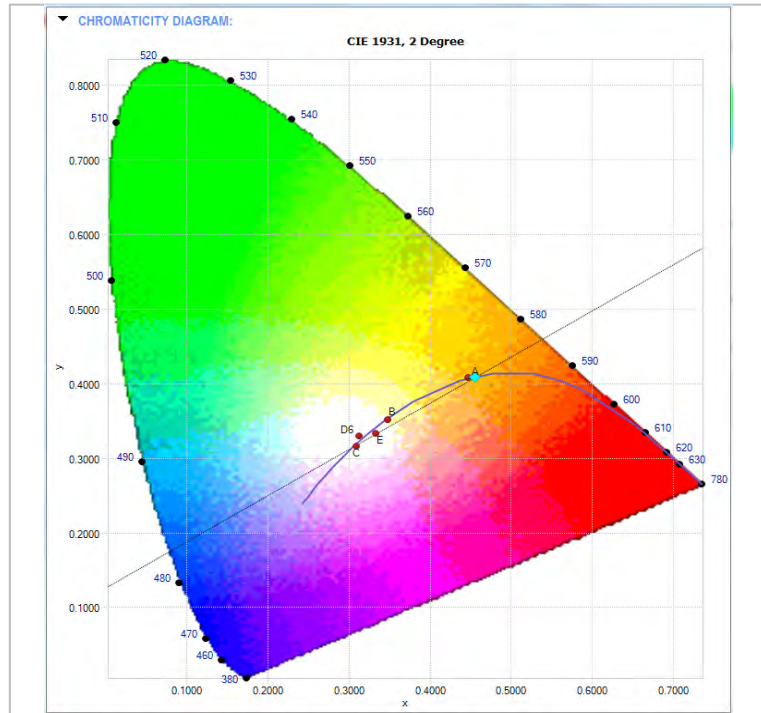


Lamp Cat#: BXRE-27G0800-A
 Lamp Desc: 1 - Bridgelux 2700K LEDs
 Driver Desc: N/A

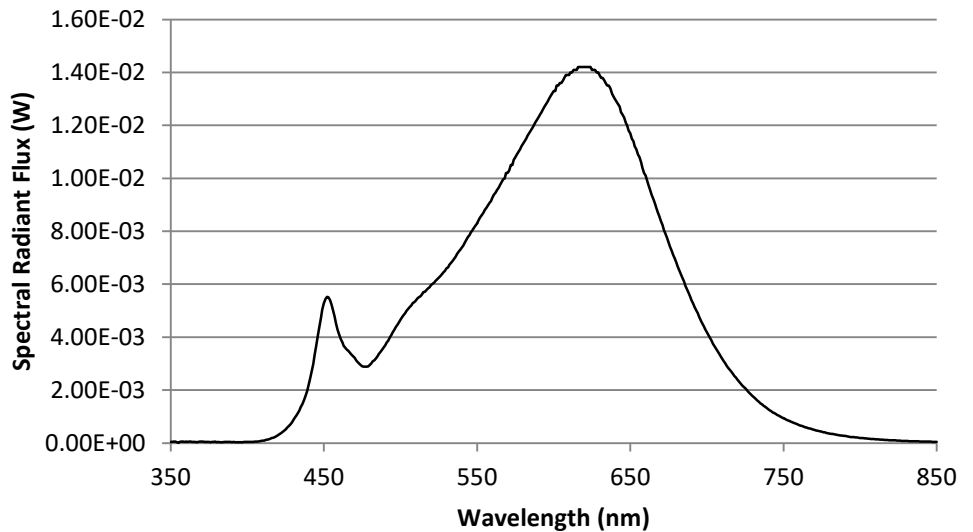
Efficacy: 64.8 LPW S/P Ratio: 1.3 LM/LM

Spectral Results

Name	Value	Unit
Φ	2.31	watts
$\Phi(v)$	674	lumens
$\Phi(v')$	873	lm'
Chrom x	0.4552	
Chrom y	0.4086	
Chrom u	0.2604	
Chrom v	0.3506	
Duv	0.0005	
Chrom u'	0.2604	
Chrom v'	0.5259	
CCT	2749	K
Purity	59.3	%
λ (dom)	584.1	nm
FWHM	141.4	nm
λ (peak)	620.4	nm
λ (center)	607.3	nm
λ (centroid)	596.9	nm
SDCM	Cool White	
RA	90	
Corr. Coef.	0.000380702	
Correlation	0.0054	
R1	89.4	
R2	95.7	
R3	97.8	
R4	88.4	
R5	89.4	
R6	95.1	
R7	88.6	
R8	74.8	
R9	46.4	
R10	89.6	
R11	88.6	
R12	83.5	
R13	90.9	
R14	99.6	



Spectral Distribution of Radiant Flux



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CATALOG NUMBER: P90622827K9

LUMINAIRE: Large Mesh Design Track Lighting

LAMP CAT. NO.: BXRE-27G0800-B

LAMP: 1 - Bridgelux 2700K LED

MOUNTING: Ceiling / Track

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.



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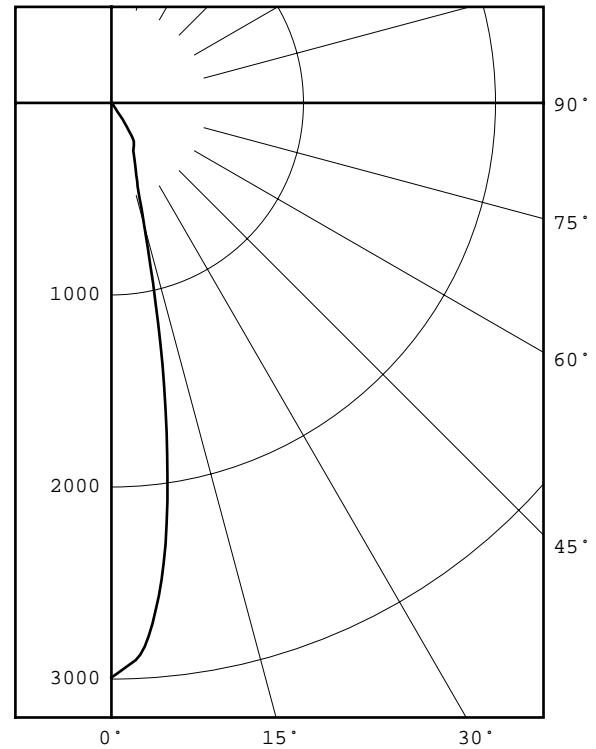
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DEG	CANDELA	LUMENS
0	2991	
5	2650	220
15	662	207
25	270	130
35	69	55
45	4	3
55	3	2
65	1	1
75	1	1
85	0	0
90	0	

ZONAL LUMEN SUMMARY		
ZONE	LUMENS	%FIXT
0- 30	556	89.7
0- 40	612	98.7
0- 60	618	99.6
0- 90	620	100.0
90-180	0	0.0
0-180	620	100.0

EFFICACY = 59.6 lm/W
 CIE TYPE - DIRECT
 LUMINAIRE SPACING CRITERION = 0.35
 PLANE : 0-DEG 90-DEG
 SHIELDING ANGLES : 90 90
 LUMINOUS DIAMETER: 2.750

LUMINANCE DATA IN CANDELA/SQ M	
ANGLE	AVERAGE
IN DEG	
45	1476.
55	1365.
65	617.
75	1008.
85	0.





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CANDELA DISTRIBUTION

0.0	2991
2.5	2904
5.0	2650
7.5	2207
10.0	1623
12.5	1062
15.0	662
17.5	454
20.0	368
22.5	313
25.0	270
27.5	252
30.0	234
32.5	164
35.0	69
37.5	17
40.0	9
42.5	5
45.0	4
47.5	3
50.0	3
52.5	2
55.0	3
57.5	3
60.0	3
62.5	2
65.0	1
67.5	1
70.0	0
72.5	1
75.0	1
77.5	2
80.0	0
82.5	0
85.0	0
87.5	0
90.0	0



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5-DEGREE		
ZONAL	LUMEN	SUMMARY
0-	5	67
5-	10	152
10-	15	128
15-	20	79
20-	25	66
25-	30	64
30-	35	46
35-	40	9
40-	45	2
45-	50	1
50-	55	1
55-	60	1
60-	65	1
65-	70	0
70-	75	0
75-	80	1
80-	85	0
85-	90	0

10-DEGREE		
ZONAL	LUMEN	SUMMARY
0-	10	220
10-	20	207
20-	30	130
30-	40	55
40-	50	3
50-	60	2
60-	70	1
70-	80	1
80-	90	0



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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	119	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	102	102	102	100
1	115	113	111	110	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96	
2	111	107	104	101	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92	
3	107	102	98	95	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89	
4	103	98	93	90	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85	
5	100	94	89	86	86	98	93	89	86	91	88	85	90	87	84	88	86	84	82	
6	97	90	86	82	82	95	89	85	82	88	84	82	87	84	81	86	83	81	79	
7	94	87	82	79	79	93	86	82	79	85	81	79	84	81	78	83	80	78	77	
8	91	84	79	76	76	90	83	79	76	82	79	76	82	78	76	81	78	75	74	
9	88	81	77	74	74	87	81	77	74	80	76	74	79	76	73	78	75	73	72	
10	86	79	74	72	72	85	78	74	71	78	74	71	77	74	71	76	73	71	70	

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: 07/10/2017

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: 31.74'	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	176F4EB	11/7/2017

Sphere Calibration

Calibration Lamp: EIKO 28V75W/E10

Lamp Number: SCL-1400-J136

Calibration Current: 2.679 Amps

Total Luminous Flux: 1427 Lumens

Test Equipment Used - Color & SPD; THD & Power Factor

<i>Instrument</i>	<i>Manufacturer / Model</i>	<i>S/N</i>	<i>Calibration Due:</i>
<i>3-Meter Sphere</i>	Labsphere / LMS-3M	N/A	Calibrated Weekly
<i>Thermometer</i>	National Instruments / USB TC01	1912751	11/2/2017
<i>LAMP Power Meter</i>	Yokogawa / WT332	C2QA27075V	11/1/2017
<i>Power Supply</i>	Chroma / 61602	616020002113	N/A
<i>Aux Lamp Supply</i>	Labsphere / LPS-100-0833	031159372	10/31/2017
<i>Cal Lamp Supply</i>	Labsphere / LPS-150-0268	1218148505	12/1/2017
<i>Spectrometer</i>	Labsphere / CDS 1100	0624117792	N/A

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