

LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: LUMIERE

Report Number: P277822

Luminaire Tested: 696-8LED2725-12-BK-OSL

Issue Date: 3/3/2020

Tested By:

Approved By:



NVLAP Lab Code: 200050-0

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Test Information

Test Method: LM-79-2019
 Report Number: P277822
 Test Lab: INNOVATION CENTER(G2)
 Issue Date: 3/3/2020
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: LUMIERE
 Catalog Number: 696-8LED2725-12-BK-OSL
 Description: BOCA 696, 8 WATT, 2700K CCT, 25 DEGREE NARROW
 OPTIC, FLUSH HOOD BLACK, OVERALL SPREAD LENS
 Light Source: (1) SORAA 2700K 90 CRI LED
 SM16-07-25D-927-03
 Ballast/Driver: -

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 349.9 lumens
 Efficiency: N/A
 Efficacy: 44.9 lumens/watt
 N/A
 Luminous Opening: Circular (Dia: 0.17' x H: 0')
 CIE Type: Indirect

Input Watts (W): 7.8
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 24 FT

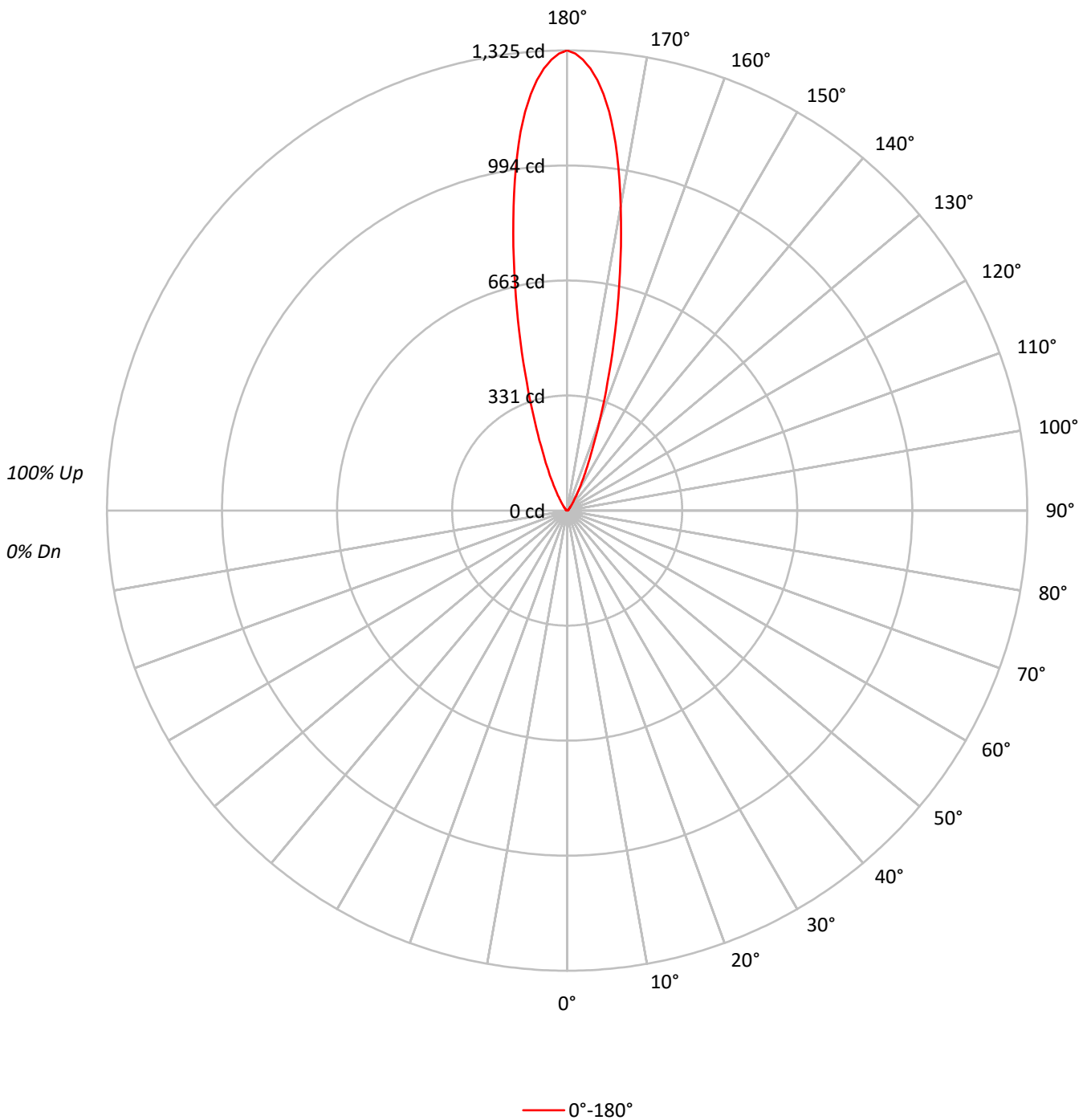


Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	P3	10/30/2015	4/30/2016
Power Meter	IN0214	1/12/2016	1/12/2017
AC Power Source	IN0062	1/12/2016	1/12/2017
DC Power Supply	--	--	--
Room Thermometer	IN0145	1/13/2016	1/13/2017

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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
RCR																		
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	57	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

AVERAGE LUMINANCE (cd/sqm):

	0°
95°	0
100°	2560
105°	1718
110°	2599
115°	3156
120°	3651
125°	3958
130°	4915
135°	6976
140°	9983
145°	17587
150°	34860
155°	70054
160°	140903
165°	272263
170°	445424
175°	596271

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 0°
 Luminance: 0 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
90°-100°	0.1	0.0
100°-110°	1.1	0.3
110°-120°	2.5	0.7
120°-130°	4.4	1.3
130°-140°	7.9	2.2
140°-150°	20.0	5.7
150°-160°	62.9	18.0
160°-170°	146.4	41.8
170°-180°	104.7	29.9
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	0.0	0.0
90°-120°	3.7	1.0
90°-150°	35.9	10.3
90°-180°	350.0	100.0
0°-180°	349.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
90°	0	
95°	0	0
105°	1	1
115°	3	2
125°	5	4
135°	10	8
145°	29	20
155°	129	63
165°	533	146
175°	1204	105
180°	1325	

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CANDELA DISTRIBUTION (FULL):

	0°
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.9
102.5°	0.9
105°	0.9
107.5°	0.9
110°	1.8
112.5°	1.8
115°	2.7
117.5°	2.7
120°	3.7
122.5°	4.6
125°	4.6
127.5°	5.5
130°	6.4
132.5°	8.2
135°	10.0
137.5°	11.9
140°	15.5
142.5°	21.0
145°	29.2
147.5°	42.0
150°	61.2
152.5°	89.5
155°	128.7
157.5°	184.4
160°	268.4
162.5°	385.2
165°	533.0
166°	597.8
167°	665.4
168°	739.3
169°	813.3
170°	889.1
171°	963.9
172°	1033.3
173°	1099.0
174°	1155.5
175°	1203.9
176°	1243.1
177°	1275.1
178°	1298.8
179°	1316.2

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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CANDELA DISTRIBUTION (continued):

180° | $\frac{0^\circ}{1325.3}$

(END OF REPORT)