

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: P277827

Luminaire Tested: 696-8LED2736-12-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: P277827
 Test Lab: INNOVATION CENTER(G2)
 Issue Date: 3/3/2020
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: LUMIERE
 Catalog Number: 696-8LED2736-12-BK-OSL
 Description: BOCA 696, 8 WATT, 2700K CCT, 36 DEGREE WIDE OPTIC,
 FLUSH HOOD BLACK, OVERALL SPREAD LENS
 Light Source: (1) SORAA 2700K 95 CRI LED
 SM16-07-36D-927-03
 Ballast/Driver: -

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 350.8 lumens
 Efficiency: N/A
 Efficacy: 45.6 lumens/watt
 N/A
 Luminous Opening: Circular (Dia: 0.17' x H: 0')
 CIE Type: Indirect

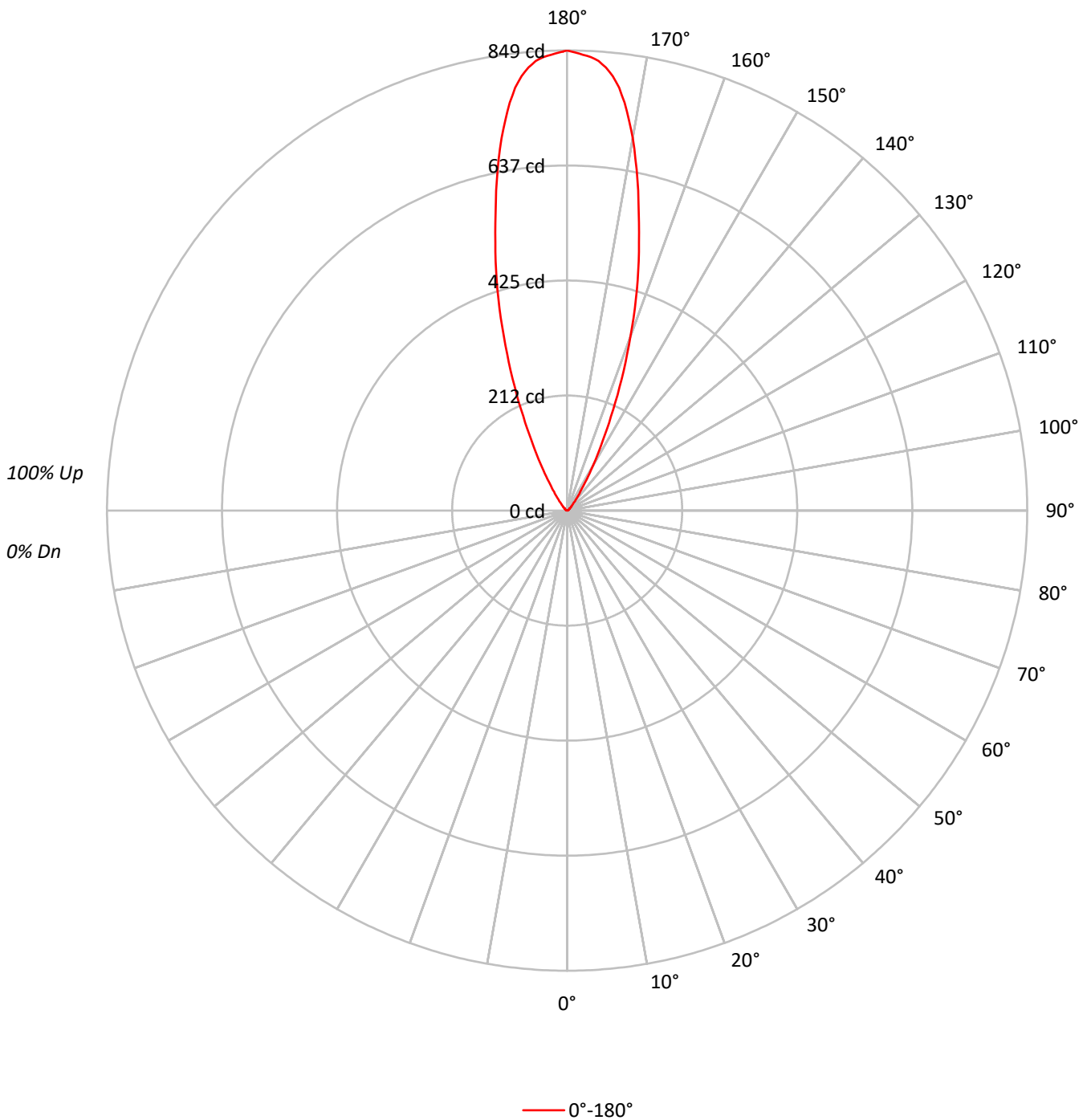
Input Watts (W): 7.7
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 24 FT



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°	2567
105°	1722
110°	2593
115°	3153
120°	3652
125°	3953
130°	5601
135°	7673
140°	12946
145°	25297
150°	52521
155°	104346
160°	179705
165°	261545
170°	349355
175°	406423

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°	4.3	1.2
130°-140°	9.2	2.6
140°-150°	28.7	8.2
150°-160°	89.6	25.5
160°-170°	140.8	40.1
170°-180°	74.4	21.2
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°	45.9	13.1
90°-180°	351.0	100.1
0°-180°	350.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
90°	0	
95°	0	0
105°	1	1
115°	3	2
125°	5	4
135°	11	9
145°	42	29
155°	192	90
165°	512	141
175°	821	74
180°	849	

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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°	3.7
125°	4.6
127.5°	5.5
130°	7.3
132.5°	9.1
135°	11.0
137.5°	14.6
140°	20.1
142.5°	28.3
145°	42.0
147.5°	62.1
150°	92.2
151°	108.6
152°	126.9
153°	146.1
154°	168.0
155°	191.7
156°	219.1
157°	247.4
158°	279.3
159°	309.5
160°	342.3
161°	376.1
162°	410.8
163°	444.6
164°	478.4
165°	512.0
166°	547.6
167°	585.1
168°	624.3
169°	660.8
170°	697.3

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CANDELA DISTRIBUTION (continued):

	0°
171°	729.3
172°	760.3
173°	785.9
174°	806.0
175°	820.6
176°	831.5
177°	837.9
178°	841.6
179°	845.2
180°	848.9

(END OF REPORT)