

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: P27782[_3000k

Luminaire Tested: 696-8LED3025-12-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: P27782[_3000k
 Test Lab: INNOVATION CENTER(G2)
 Issue Date: 3/3/2020
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: LUMIERE
 Catalog Number: 696-8LED3025-12-BK-OSL
 Description: BOCA 696, 8 WATT, 3000K CCT, 25 DEGREE NARROW
 OPTIC, FLUSH HOOD BLACK, OVERALL SPREAD LENS
 Light Source: (1) SORAA 3000K 90 CRI LED
 SM16-07-25D-930-03
 Ballast/Driver: -

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 387.6 lumens
 Efficiency: N/A
 Efficacy: 49.7 lumens/watt
 N/A
 Luminous Opening: Circular (Dia: 0.17' x H: 0')
 CIE Type: Indirect

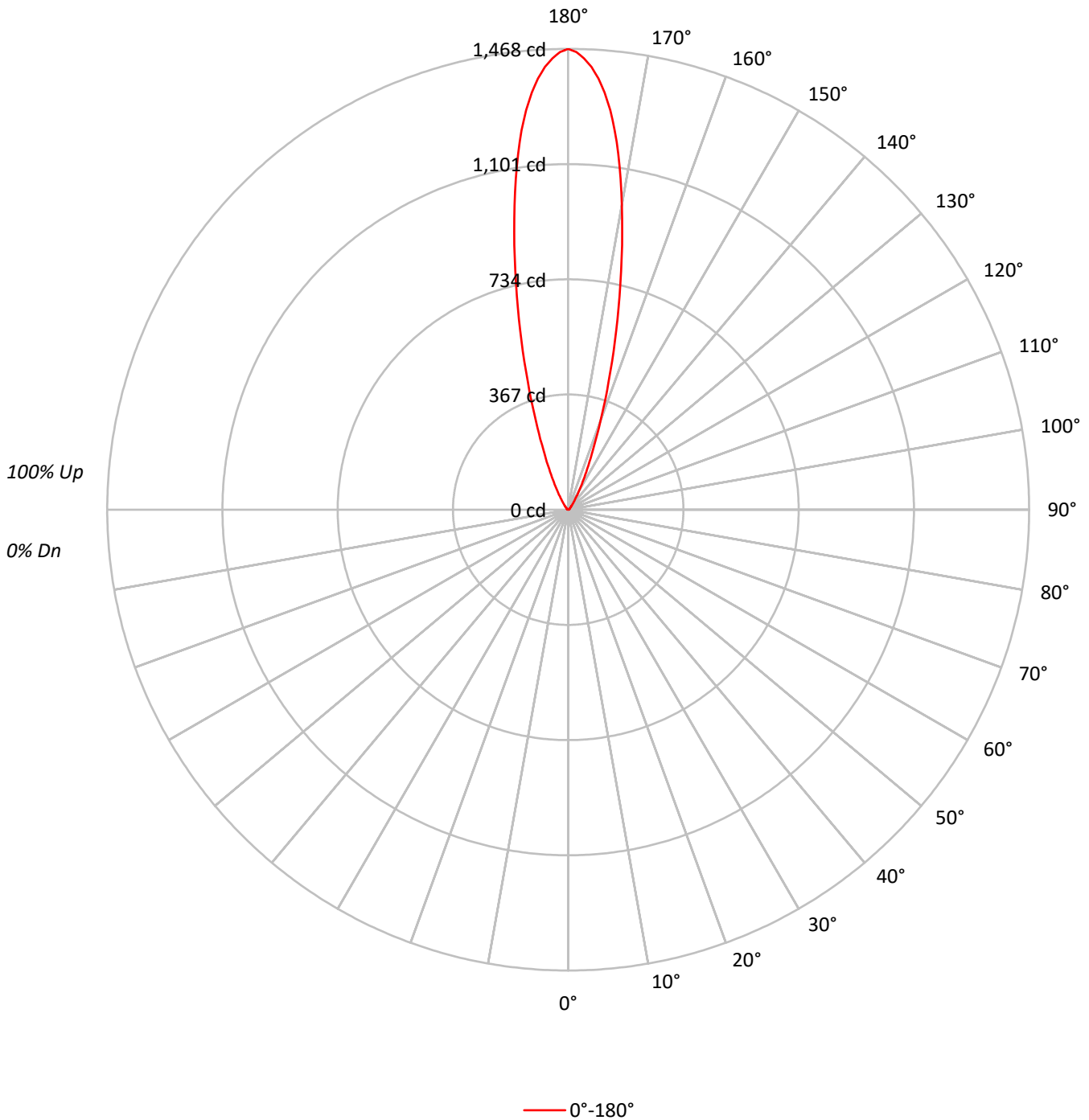
Input Watts (W): 7.8
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 24 FT



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								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	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°	2836
105°	1903
110°	2880
115°	3496
120°	4045
125°	4384
130°	5444
135°	7728
140°	11059
145°	19482
150°	38616
155°	77602
160°	156085
165°	301599
170°	493419
175°	660519

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°	1.2	0.3
110°-120°	2.7	0.7
120°-130°	4.9	1.3
130°-140°	8.7	2.2
140°-150°	22.1	5.7
150°-160°	69.7	18.0
160°-170°	162.1	41.8
170°-180°	116.0	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°	4.0	1.0
90°-150°	39.7	10.3
90°-180°	388.0	100.1
0°-180°	387.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
90°	0	
95°	0	0
105°	1	1
115°	3	3
125°	5	5
135°	11	9
145°	32	22
155°	143	70
165°	590	162
175°	1334	116
180°	1468	

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CANDELA DISTRIBUTION (FULL):

	0°
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	1.0
102.5°	1.0
105°	1.0
107.5°	1.0
110°	2.0
112.5°	2.0
115°	3.0
117.5°	3.0
120°	4.1
122.5°	5.1
125°	5.1
127.5°	6.1
130°	7.1
132.5°	9.1
135°	11.1
137.5°	13.2
140°	17.2
142.5°	23.3
145°	32.3
147.5°	46.5
150°	67.8
152.5°	99.1
155°	142.6
157.5°	204.2
160°	297.3
162.5°	426.7
165°	590.5
166°	662.2
167°	737.1
168°	819.0
169°	900.9
170°	984.9
171°	1067.7
172°	1144.6
173°	1217.4
174°	1280.1
175°	1333.7
176°	1377.1
177°	1412.5
178°	1438.8
179°	1458.1

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



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CANDELA DISTRIBUTION (continued):

180° | $\frac{0^\circ}{1468.1}$

(END OF REPORT)