

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: P277824

Luminaire Tested: 696-8LED2736-12-BK-DIFF

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: P277824
 Test Lab: INNOVATION CENTER(G2)
 Issue Date: 3/3/2020
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: LUMIERE
 Catalog Number: 696-8LED2736-12-BK-DIFF
 Description: BOCA 696, 8 WATT, 2700K CCT, 36 DEGREE WIDE OPTIC,
 FLUSH HOOD BLACK, DIFFUSED LENS
 Light Source: (1) SORAA 2700K 95 CRI LED
 SM16-07-36D-927-03
 Ballast/Driver: -

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 306.9 lumens
 Efficiency: N/A
 Efficacy: 39.9 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

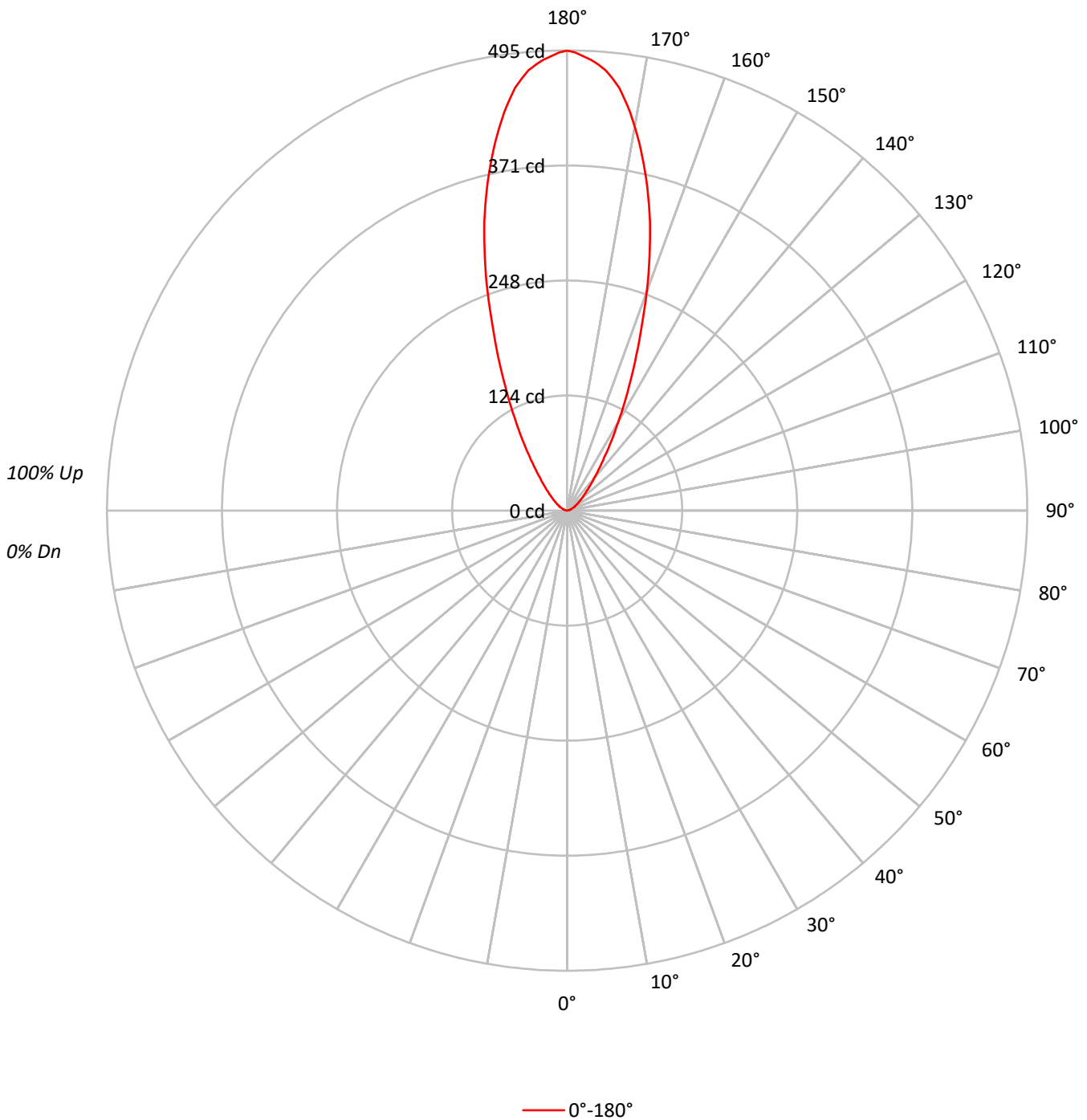


Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	P3	10/30/2015	4/30/2016
Power Meter	IN0214	1/12/2016	1/12/2017
AC Power Source	IN0062	1/12/2016	1/12/2017
DC Power Supply	--	--	--
Room Thermometer	IN0145	1/13/2016	1/13/2017

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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°	2551
105°	5148
110°	6630
115°	8518
120°	9865
125°	12559
130°	16119
135°	21002
140°	28785
145°	41794
150°	62375
155°	91935
160°	131302
165°	173905
170°	209894
175°	235522

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°	2.9	0.9
110°-120°	7.2	2.3
120°-130°	13.4	4.4
130°-140°	23.8	7.7
140°-150°	44.7	14.6
150°-160°	77.9	25.4
160°-170°	93.3	30.4
170°-180°	43.6	14.2
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°	10.2	3.3
90°-150°	92.1	30.0
90°-180°	307.0	100.0
0°-180°	306.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
90°	0	
95°	0	0
105°	3	3
115°	7	7
125°	15	13
135°	30	24
145°	69	45
155°	169	78
165°	340	93
175°	476	44
180°	495	

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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°	1.8
105°	2.7
107.5°	3.7
110°	4.6
112.5°	5.5
115°	7.3
117.5°	9.1
120°	10.0
122.5°	12.8
125°	14.6
127.5°	17.3
130°	21.0
132.5°	24.6
135°	30.1
137.5°	36.5
140°	44.7
142.5°	55.7
145°	69.4
147.5°	87.6
150°	109.5
151°	120.5
152°	131.5
153°	143.3
154°	155.2
155°	168.9
156°	183.5
157°	198.1
158°	214.5
159°	231.9
160°	250.1
161°	268.4
162°	286.6
163°	304.9
164°	323.2
165°	340.5
166°	356.9
167°	373.4
168°	388.9
169°	404.4
170°	419.0

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CANDELA DISTRIBUTION (continued):

	0°
171°	433.6
172°	446.4
173°	458.3
174°	467.4
175°	475.5
176°	481.1
177°	485.7
178°	489.3
179°	493.0
180°	494.8

(END OF REPORT)