

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: 696-8LED3036-12-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: P27782[_3000K
 Test Lab: INNOVATION CENTER(G2)
 Issue Date: 3/3/2020
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: LUMIERE
 Catalog Number: 696-8LED3036-12-BK-DIFF
 Description: BOCA 696, 8 WATT, 3000K CCT, 36 DEGREE WIDE OPTIC,
 FLUSH HOOD BLACK, DIFFUSED LENS
 Light Source: (1) SORAA 3000K 90 CRI LED
 SM16-07-36D-930-03
 Ballast/Driver: -

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 340.0 lumens
 Efficiency: N/A
 Efficacy: 44.2 lumens/watt
 N/A
 Luminous Opening: Circular (Dia: 0.17' x H: 0')
 CIE Type: Indirect

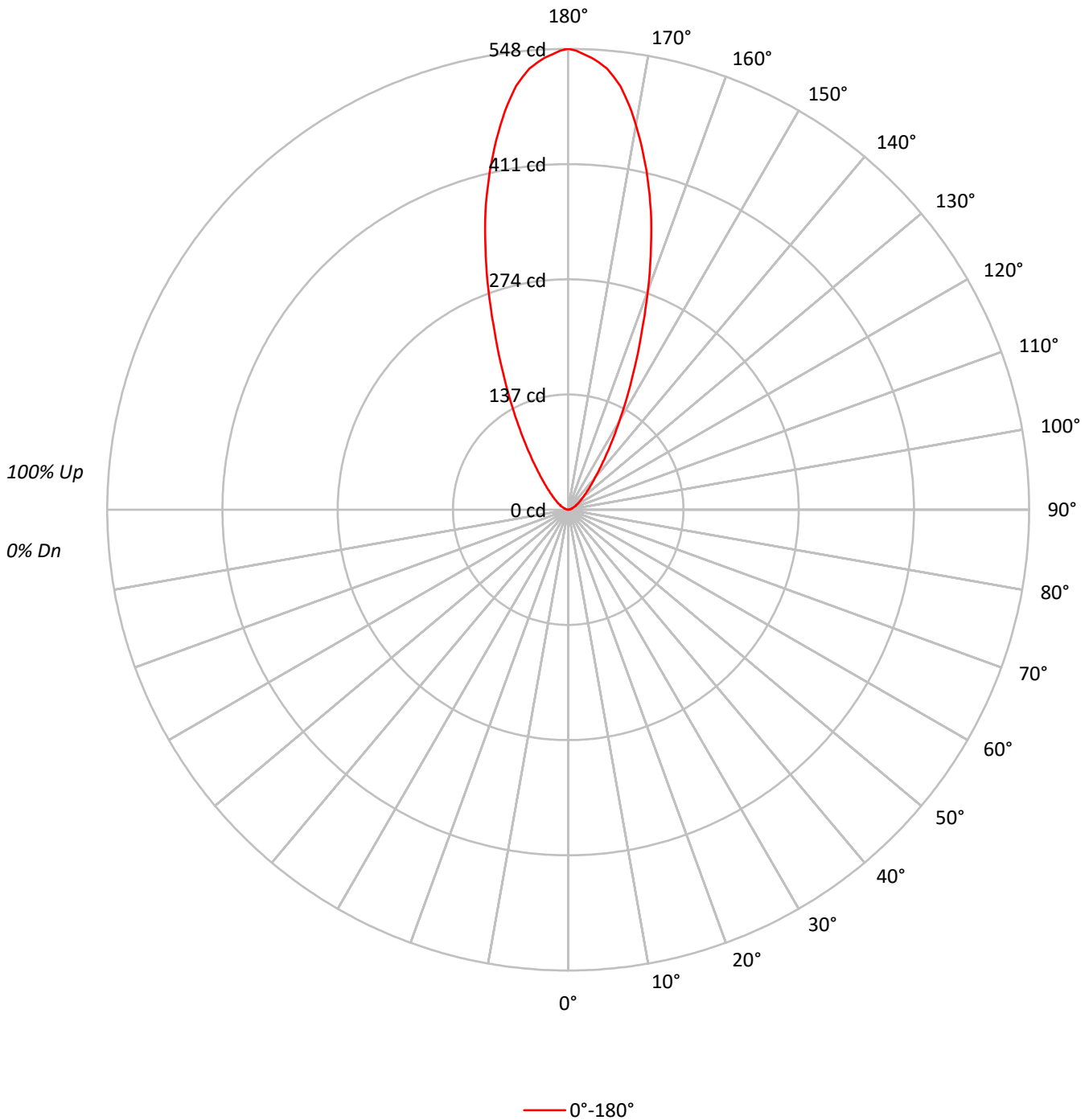
Input Watts (W): 7.7
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 24 FT



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°	2825
105°	5703
110°	7344
115°	9436
120°	10928
125°	13913
130°	17855
135°	23264
140°	31886
145°	46297
150°	69096
155°	101841
160°	145449
165°	192643
170°	232509
175°	260900

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°	3.2	0.9
110°-120°	8.0	2.3
120°-130°	14.9	4.4
130°-140°	26.3	7.7
140°-150°	49.5	14.6
150°-160°	86.3	25.4
160°-170°	103.3	30.4
170°-180°	48.3	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°	11.3	3.3
90°-150°	102.0	30.0
90°-180°	340.0	100.0
0°-180°	340.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
90°	0	
95°	0	0
105°	3	3
115°	8	8
125°	16	15
135°	33	26
145°	77	50
155°	187	86
165°	377	103
175°	527	48
180°	548	

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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°	2.0
105°	3.0
107.5°	4.1
110°	5.1
112.5°	6.1
115°	8.1
117.5°	10.1
120°	11.1
122.5°	14.2
125°	16.2
127.5°	19.2
130°	23.3
132.5°	27.2
135°	33.3
137.5°	40.4
140°	49.5
142.5°	61.7
145°	76.9
147.5°	97.0
150°	121.3
151°	133.5
152°	145.7
153°	158.7
154°	171.9
155°	187.1
156°	203.3
157°	219.4
158°	237.6
159°	256.9
160°	277.0
161°	297.3
162°	317.4
163°	337.7
164°	358.0
165°	377.2
166°	395.3
167°	413.6
168°	430.8
169°	447.9
170°	464.1

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CANDELA DISTRIBUTION (continued):

	0°
171°	480.3
172°	494.5
173°	507.6
174°	517.7
175°	526.8
176°	532.9
177°	538.0
178°	542.0
179°	546.1
180°	548.1

(END OF REPORT)