

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: LUMIERE

Report Number: P221371

Luminaire Tested: **9002-W2-FL-LED5080-W-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221371
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29424)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9002-W2-FL-LED5080-W-BK-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 5000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2067.4 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 0.87 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

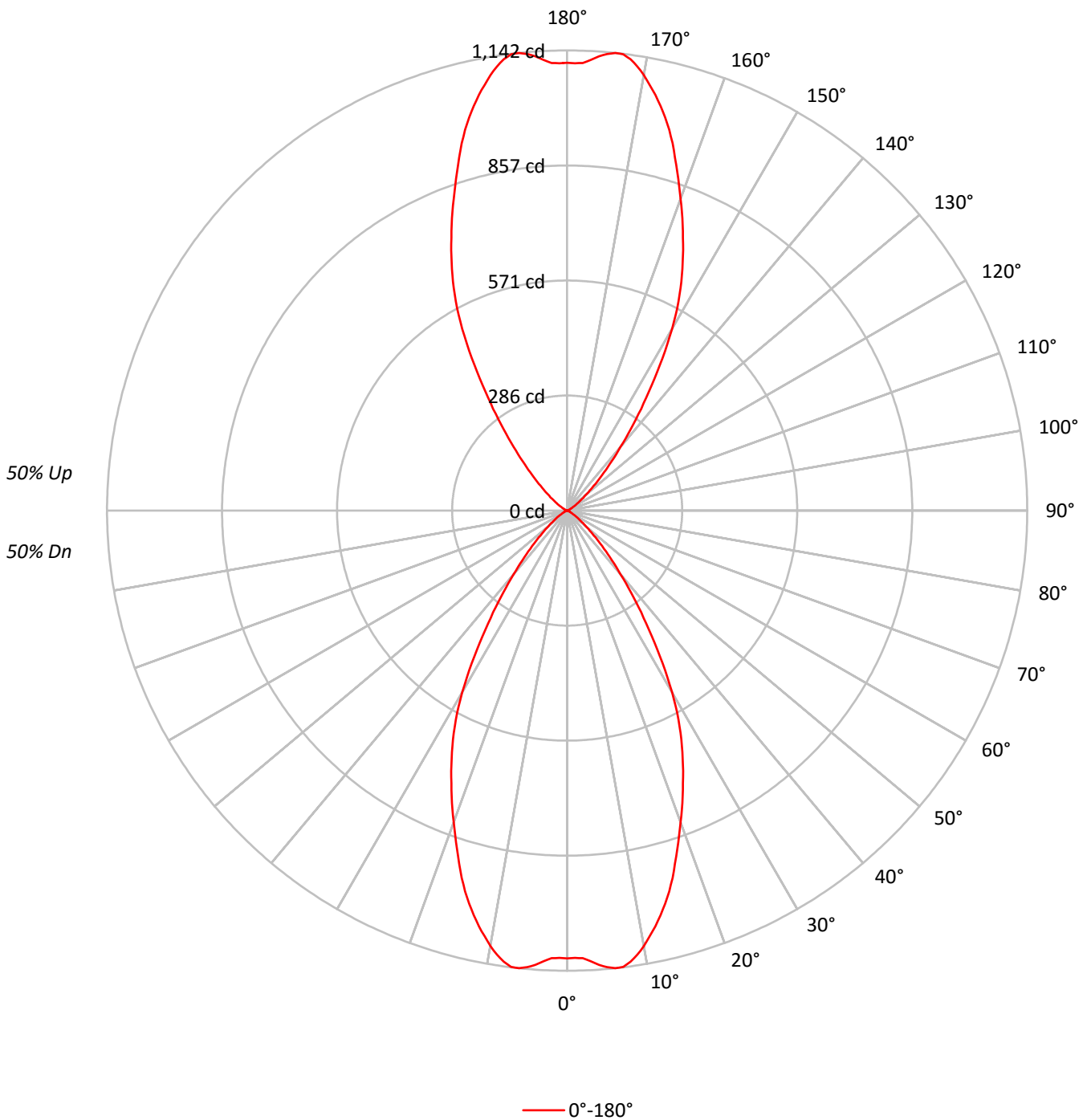
Input Watts (W): 20
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	107	99	99	99	99	83	83	83		69	69	69		56	56	56	50
1	100	97	93	91	92	89	87	85	76	75	73		64	63	62		53	52	52	47
2	93	87	82	78	86	81	77	73	70	67	64		59	57	56		50	49	47	43
3	87	79	73	69	80	74	69	65	64	60	57		55	52	50		47	45	44	40
4	81	72	66	61	75	68	62	58	59	55	52		51	48	46		44	42	40	37
5	75	66	59	54	70	62	56	52	54	50	47		47	44	42		41	39	37	34
6	71	60	54	49	66	57	51	47	50	46	43		44	41	38		38	36	34	32
7	66	56	49	44	62	53	47	43	47	42	39		41	38	35		36	34	32	30
8	62	52	45	40	58	49	43	39	44	39	36		39	35	33		34	32	30	28
9	59	48	42	37	55	46	40	36	41	36	33		36	33	30		32	30	28	26
10	55	45	38	34	52	43	37	33	38	34	31		34	31	28		30	28	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	548342
5°	563413
10°	549687
15°	499649
20°	432216
25°	369092
30°	296703
35°	205808
40°	132870
45°	80729
50°	46898
55°	26322
60°	14012
65°	7705
70°	3174
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.5	5.2
10°-20°	270.9	13.1
20°-30°	309.0	14.9
30°-40°	216.3	10.5
40°-50°	93.3	4.5
50°-60°	29.4	1.4
60°-70°	6.8	0.3
70°-80°	0.6	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.9	0.0
110°-120°	6.8	0.3
120°-130°	29.4	1.4
130°-140°	93.3	4.5
140°-150°	216.3	10.5
150°-160°	309.0	14.9
160°-170°	270.9	13.1
170°-180°	107.5	5.2
0°-30°	687.4	33.2
0°-40°	903.7	43.7
0°-60°	1026.3	49.6
0°-90°	1033.7	50.0
90°-120°	7.7	0.4
90°-150°	346.6	16.8
90°-180°	1034.0	50.0
0°-180°	2067.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1111	
5°	1138	108
15°	978	271
25°	678	309
35°	342	216
45°	116	93
55°	31	29
65°	7	7
75°	0	1
85°	0	0
90°	0	0
95°	0	0
105°	0	1
115°	7	7
125°	31	29
135°	116	93
145°	342	216
155°	678	309
165°	978	271
175°	1138	108
180°	1111	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1111.4
1°	1110.3
2°	1111.4
3°	1120.1
4°	1129.9
5°	1137.6
6°	1142.0
7°	1140.9
8°	1131.0
9°	1115.8
10°	1097.2
11°	1075.4
12°	1054.6
13°	1030.6
14°	1005.5
15°	978.2
16°	948.7
17°	916.0
18°	884.3
19°	853.7
20°	823.2
21°	794.8
22°	765.3
23°	735.8
24°	707.4
25°	678.0
26°	649.6
27°	620.1
28°	588.4
29°	555.7
30°	520.8
32.5°	428.0
35°	341.7
37.5°	268.6
40°	206.3
42.5°	156.1
45°	115.7
47.5°	84.1
50°	61.1
52.5°	43.7
55°	30.6
57.5°	20.7
60°	14.2
62.5°	9.8
65°	6.6



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	3.3
70°	2.2
72.5°	1.1
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	1.1
110°	2.2
112.5°	3.3
115°	6.6
117.5°	9.8
120°	14.2
122.5°	20.7
125°	30.6
127.5°	43.7
130°	61.1
132.5°	84.1
135°	115.7
137.5°	156.1
140°	206.3
142.5°	268.6
145°	341.7
147.5°	428.0
150°	520.8
151°	555.7
152°	588.4
153°	620.1
154°	649.6
155°	678.0
156°	707.4
157°	735.8
158°	765.3
159°	794.8
160°	823.2
161°	853.7



TEST NUMBER: P221371

CATALOG NUMBER: 9002-W2-FL-LED5080-W-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	0°
162°	884.3
163°	916.0
164°	948.7
165°	978.2
166°	1005.5
167°	1030.6
168°	1054.6
169°	1075.4
170°	1097.2
171°	1115.8
172°	1131.0
173°	1140.9
174°	1142.0
175°	1137.6
176°	1129.9
177°	1120.1
178°	1111.4
179°	1110.3
180°	1111.4

(END OF REPORT)