

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: P221921

Luminaire Tested: **9004-W2-[RW, RI]-LED5080-M-BK-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221921
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29492)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-[RW, RI]-LED5080-M-BK-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 5000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5141.9 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

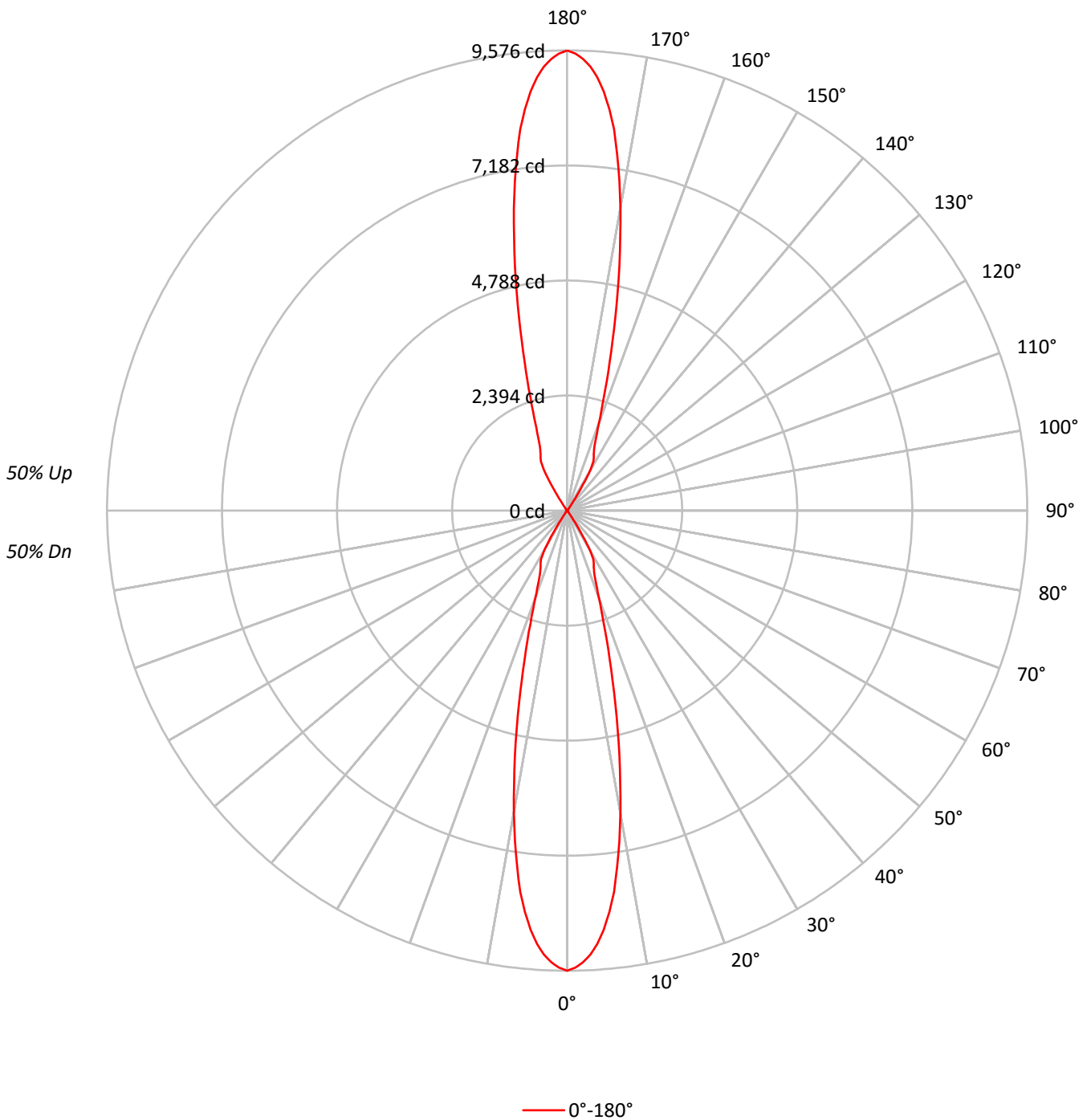
Input Watts (W): 57
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	98	95	92	93	91	88	86	77	76	74		65	64	63		54	54	53	48
2	95	89	85	81	88	83	80	77	72	70	67		62	60	59		52	51	50	46
3	89	82	77	73	83	77	73	69	68	64	62		59	57	55		50	49	48	44
4	84	76	71	66	79	72	67	63	64	60	57		56	53	51		48	47	46	43
5	80	71	65	61	75	67	62	58	60	56	53		53	51	49		47	45	44	41
6	76	67	61	57	71	63	58	54	57	53	50		51	48	46		45	43	42	40
7	72	63	57	53	68	60	55	51	54	50	47		49	46	44		43	42	40	38
8	68	59	53	50	64	57	51	48	51	48	45		47	44	42		42	40	39	37
9	65	56	51	47	62	54	49	45	49	45	43		45	42	40		41	39	37	36
10	62	53	48	44	59	51	46	43	47	43	41		43	40	38		39	37	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1181158
5°	1083669
10°	799536
15°	466681
20°	253086
25°	178845
30°	129609
35°	16112
40°	5523
45°	2180
50°	1401
55°	1118
60°	765
65°	613
70°	361
75°	477
80°	710
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	758.8	14.8
10°-20°	1017.7	19.8
20°-30°	617.4	12.0
30°-40°	158.0	3.1
40°-50°	11.3	0.2
50°-60°	4.6	0.1
60°-70°	2.0	0.0
70°-80°	1.1	0.0
80°-90°	0.1	0.0
90°-100°	0.1	0.0
100°-110°	1.1	0.0
110°-120°	2.0	0.0
120°-130°	4.6	0.1
130°-140°	11.3	0.2
140°-150°	158.0	3.1
150°-160°	617.4	12.0
160°-170°	1017.7	19.8
170°-180°	758.8	14.8
0°-30°	2393.9	46.6
0°-40°	2551.8	49.6
0°-60°	2567.7	49.9
0°-90°	2571.0	50.0
90°-120°	3.2	0.1
90°-150°	177.1	3.4
90°-180°	2571.0	50.0
0°-180°	5141.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9576	
5°	8752	759
15°	3655	1018
25°	1314	617
35°	107	158
45°	12	11
55°	5	5
65°	2	2
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	2
125°	5	5
135°	12	11
145°	107	158
155°	1314	617
165°	3655	1018
175°	8752	759
180°	9576	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	9576.0
1°	9514.7
2°	9405.6
3°	9249.8
4°	9036.8
5°	8752.2
6°	8396.9
7°	7996.9
8°	7485.8
9°	6940.4
10°	6383.6
11°	5797.7
12°	5222.2
13°	4671.6
14°	4142.9
15°	3654.6
16°	3218.3
17°	2824.6
18°	2473.5
19°	2177.4
20°	1928.1
21°	1731.7
22°	1575.9
23°	1460.6
24°	1378.5
25°	1314.1
26°	1262.2
27°	1217.5
28°	1164.5
29°	1067.9
30°	910.0
32.5°	433.2
35°	107.0
37.5°	58.2
40°	34.3
42.5°	15.6
45°	12.5
47.5°	10.4
50°	7.3
52.5°	6.2
55°	5.2
57.5°	4.2
60°	3.1
62.5°	3.1
65°	2.1



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	1.0
70°	1.0
72.5°	1.0
75°	1.0
77.5°	1.0
80°	1.0
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°	1.0
102.5°	1.0
105°	1.0
107.5°	1.0
110°	1.0
112.5°	1.0
115°	2.1
117.5°	3.1
120°	3.1
122.5°	4.2
125°	5.2
127.5°	6.2
130°	7.3
132.5°	10.4
135°	12.5
137.5°	15.6
140°	34.3
142.5°	58.2
145°	107.0
147.5°	433.2
150°	910.0
151°	1067.9
152°	1164.5
153°	1217.5
154°	1262.2
155°	1314.1
156°	1378.5
157°	1460.6
158°	1575.9
159°	1731.7
160°	1928.1
161°	2177.4



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CANDELA DISTRIBUTION (continued):

	0°
162°	2473.5
163°	2824.6
164°	3218.3
165°	3654.6
166°	4142.9
167°	4671.6
168°	5222.2
169°	5797.7
170°	6383.6
171°	6940.4
172°	7485.8
173°	7996.9
174°	8396.9
175°	8752.2
176°	9036.8
177°	9249.8
178°	9405.6
179°	9514.7
180°	9576.0

(END OF REPORT)