

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: P221924

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221924
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29488)
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-WT-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 5000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5501.3 lumens
Efficiency: N/A
Efficacy: 96.5 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

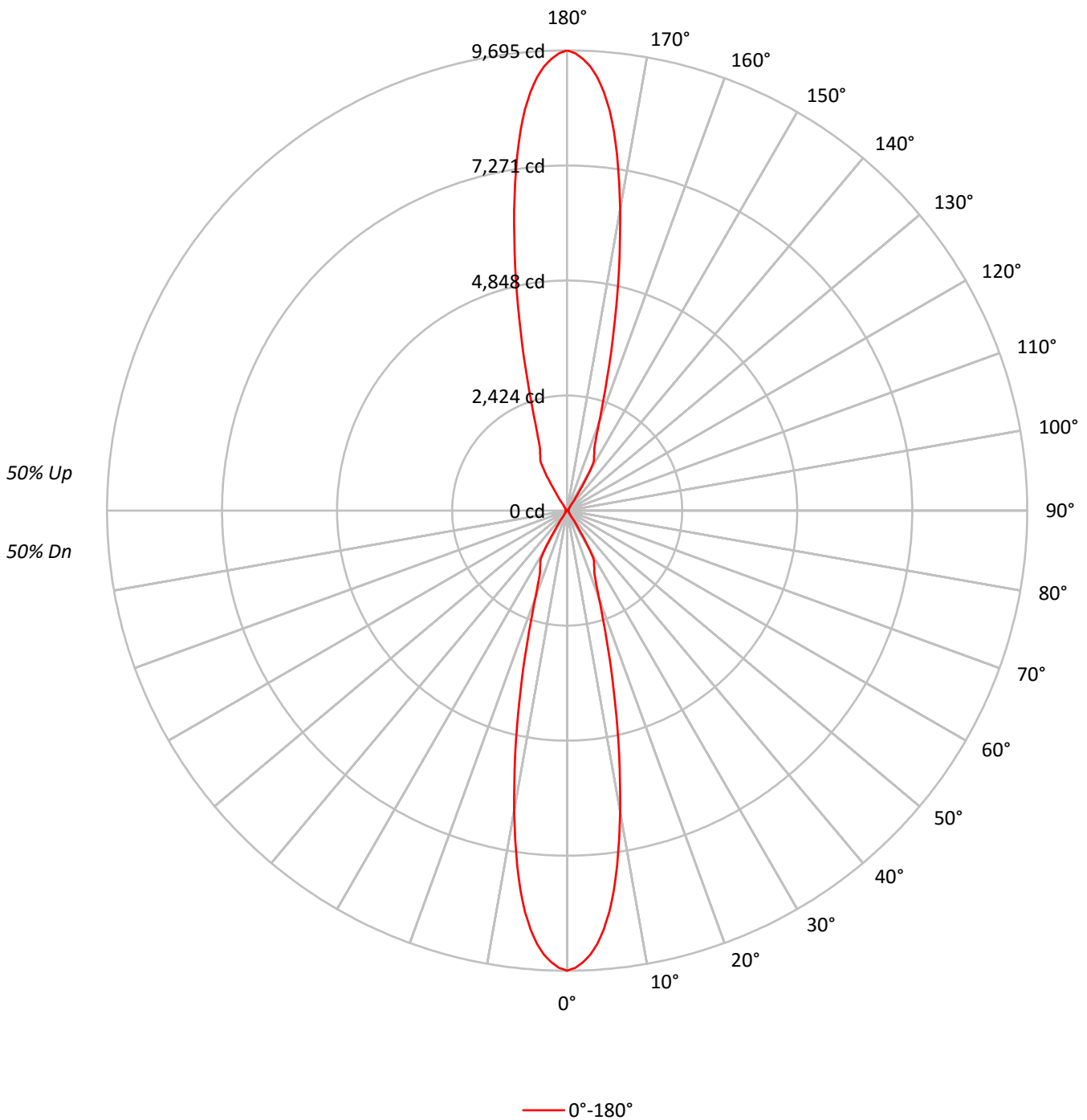
Input Watts (W): 57
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	92	93	90	88	85	77	75	74	65	64	63	54	53	52	47
2	94	89	84	80	87	83	79	75	71	69	66	61	59	58	51	50	49	45
3	88	81	76	72	82	76	72	68	67	63	61	57	55	53	49	48	47	43
4	83	75	69	65	78	71	66	62	62	59	56	54	52	50	47	46	44	41
5	79	70	64	59	73	66	61	57	59	55	52	52	49	47	45	44	42	39
6	75	65	59	55	70	62	57	53	55	51	48	49	46	44	44	42	40	38
7	71	61	55	51	66	58	53	49	53	49	46	47	44	42	42	40	39	36
8	67	58	52	48	63	55	50	46	50	46	43	45	42	40	41	39	37	35
9	64	55	49	45	60	52	47	44	48	44	41	43	40	38	39	37	36	34
10	61	52	46	43	58	50	45	41	46	42	39	42	39	37	38	36	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1195885
5°	1096658
10°	804746
15°	471329
20°	257168
25°	183227
30°	135534
35°	19560
40°	10708
45°	7605
50°	7772
55°	8043
60°	8980
65°	10011
70°	11613
75°	14345
80°	16977
85°	16134



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	766.6	13.9
10°-20°	1026.4	18.7
20°-30°	633.6	11.5
30°-40°	176.6	3.2
40°-50°	35.7	0.6
50°-60°	34.0	0.6
60°-70°	34.3	0.6
70°-80°	30.7	0.6
80°-90°	12.9	0.2
90°-100°	12.9	0.2
100°-110°	30.7	0.6
110°-120°	34.3	0.6
120°-130°	34.0	0.6
130°-140°	35.7	0.6
140°-150°	176.6	3.2
150°-160°	633.6	11.5
160°-170°	1026.4	18.7
170°-180°	766.6	13.9
0°-30°	2426.5	44.1
0°-40°	2603.1	47.3
0°-60°	2672.8	48.6
0°-90°	2750.7	50.0
90°-120°	77.9	1.4
90°-150°	324.1	5.9
90°-180°	2751.0	50.0
0°-180°	5501.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9695	
5°	8857	767
15°	3691	1026
25°	1346	634
35°	130	177
45°	44	36
55°	37	34
65°	34	34
75°	30	31
85°	11	12
90°	0	1
95°	11	12
105°	30	31
115°	34	34
125°	37	34
135°	44	36
145°	130	177
155°	1346	634
165°	3691	1026
175°	8857	767
180°	9695	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	9695.4
1°	9635.2
2°	9524.0
3°	9366.1
4°	9149.0
5°	8857.1
6°	8495.6
7°	8065.5
8°	7552.3
9°	7000.7
10°	6425.2
11°	5839.3
12°	5260.6
13°	4696.6
14°	4173.0
15°	3691.0
16°	3247.4
17°	2849.5
18°	2500.5
19°	2202.3
20°	1959.2
21°	1758.7
22°	1608.1
23°	1493.8
24°	1408.7
25°	1346.3
26°	1295.4
27°	1250.8
28°	1208.2
29°	1112.6
30°	951.6
32.5°	461.2
35°	129.9
37.5°	89.3
40°	66.5
42.5°	46.7
45°	43.6
47.5°	41.6
50°	40.5
52.5°	38.4
55°	37.4
57.5°	37.4
60°	36.4
62.5°	36.4
65°	34.3



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	33.2
70°	32.2
72.5°	31.2
75°	30.1
77.5°	27.0
80°	23.9
82.5°	18.7
85°	11.4
87.5°	5.2
90°	0.0
92.5°	5.2
95°	11.4
97.5°	18.7
100°	23.9
102.5°	27.0
105°	30.1
107.5°	31.2
110°	32.2
112.5°	33.2
115°	34.3
117.5°	36.4
120°	36.4
122.5°	37.4
125°	37.4
127.5°	38.4
130°	40.5
132.5°	41.6
135°	43.6
137.5°	46.7
140°	66.5
142.5°	89.3
145°	129.9
147.5°	461.2
150°	951.6
151°	1112.6
152°	1208.2
153°	1250.8
154°	1295.4
155°	1346.3
156°	1408.7
157°	1493.8
158°	1608.1
159°	1758.7
160°	1959.2
161°	2202.3



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CANDELA DISTRIBUTION (continued):

	0°
162°	2500.5
163°	2849.5
164°	3247.4
165°	3691.0
166°	4173.0
167°	4696.6
168°	5260.6
169°	5839.3
170°	6425.2
171°	7000.7
172°	7552.3
173°	8065.5
174°	8495.6
175°	8857.1
176°	9149.0
177°	9366.1
178°	9524.0
179°	9635.2
180°	9695.4

(END OF REPORT)