

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: P221873

Luminaire Tested: **9004-W2-[RW, RI]-LED4080-M-BK-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221873
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]-LED4080-M-BK-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 4000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4949.8 lumens
Efficiency: N/A
Efficacy: 86.8 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

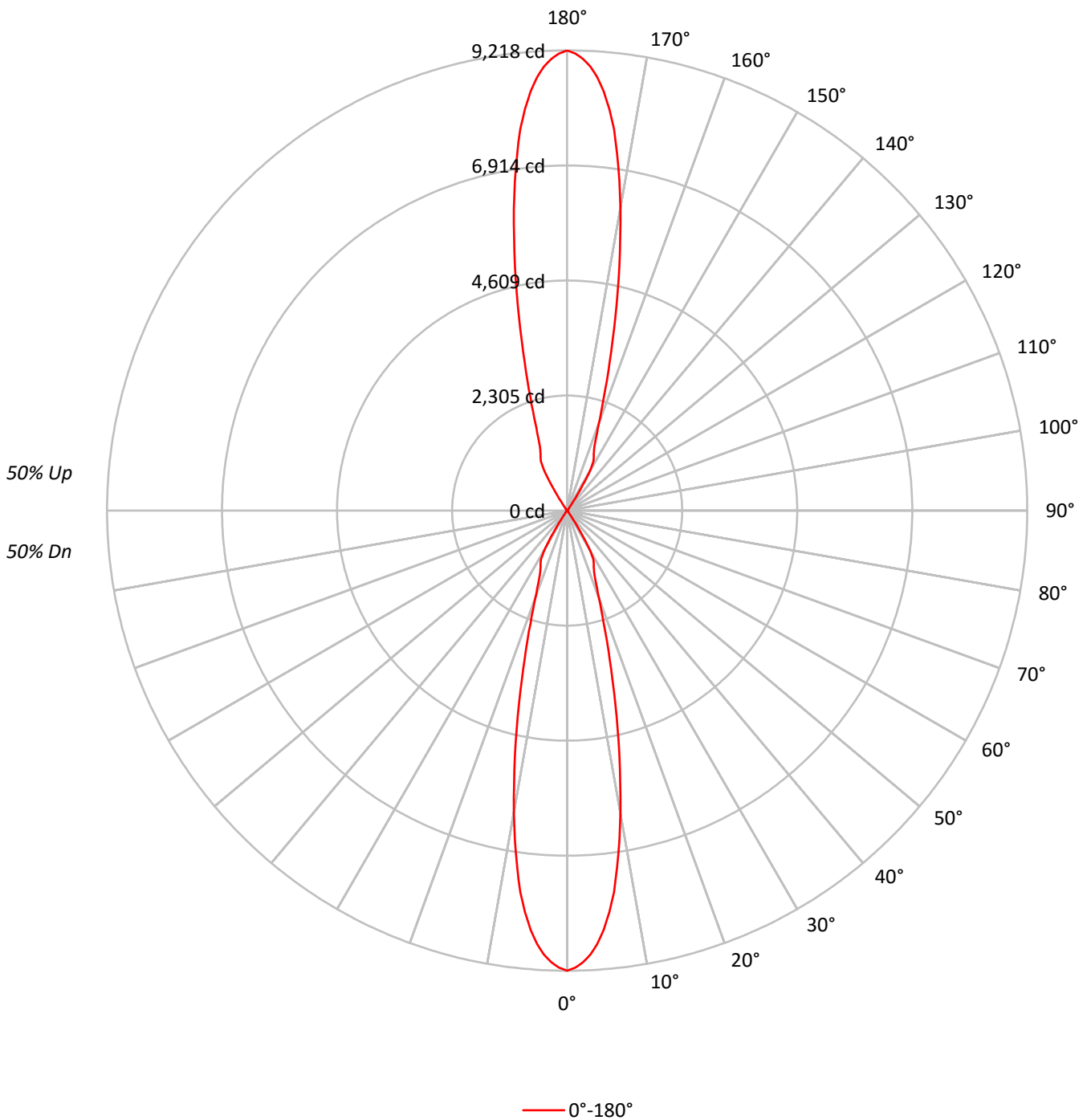
Input Watts (W): 57
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1137000
5°	1043156
10°	769652
15°	449237
20°	243622
25°	172163
30°	124766
35°	15509
40°	5314
45°	2093
50°	1343
55°	1075
60°	740
65°	584
70°	361
75°	477
80°	710
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	730.5	14.8
10°-20°	979.6	19.8
20°-30°	594.3	12.0
30°-40°	152.1	3.1
40°-50°	10.8	0.2
50°-60°	4.5	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°	4.5	0.1
130°-140°	10.8	0.2
140°-150°	152.1	3.1
150°-160°	594.3	12.0
160°-170°	979.6	19.8
170°-180°	730.5	14.8
0°-30°	2304.4	46.6
0°-40°	2456.4	49.6
0°-60°	2471.7	49.9
0°-90°	2474.9	50.0
90°-120°	3.2	0.1
90°-150°	170.5	3.4
90°-180°	2475.0	50.0
0°-180°	4949.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9218	
5°	8425	730
15°	3518	980
25°	1265	594
35°	103	152
45°	12	11
55°	5	4
65°	2	2
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	2
125°	5	4
135°	12	11
145°	103	152
155°	1265	594
165°	3518	980
175°	8425	730
180°	9218	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	9218
1°	9159
2°	9054
3°	8904
4°	8699
5°	8425
6°	8083
7°	7698
8°	7206
9°	6681
10°	6145
11°	5581
12°	5027
13°	4497
14°	3988
15°	3518
16°	3098
17°	2719
18°	2381
19°	2096
20°	1856
21°	1667
22°	1517
23°	1406
24°	1327
25°	1265
26°	1215
27°	1172
28°	1121
29°	1028
30°	876
32.5°	417
35°	103
37.5°	56
40°	33
42.5°	15
45°	12
47.5°	10
50°	7
52.5°	6
55°	5
57.5°	4
60°	3
62.5°	3
65°	2



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	1
70°	1
72.5°	1
75°	1
77.5°	1
80°	1
82.5°	0
85°	0
87.5°	0
90°	0
92.5°	0
95°	0
97.5°	0
100°	1
102.5°	1
105°	1
107.5°	1
110°	1
112.5°	1
115°	2
117.5°	3
120°	3
122.5°	4
125°	5
127.5°	6
130°	7
132.5°	10
135°	12
137.5°	15
140°	33
142.5°	56
145°	103
147.5°	417
150°	876
151°	1028
152°	1121
153°	1172
154°	1215
155°	1265
156°	1327
157°	1406
158°	1517
159°	1667
160°	1856
161°	2096



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CANDELA DISTRIBUTION (continued):

	0°
162°	2381
163°	2719
164°	3098
165°	3518
166°	3988
167°	4497
168°	5027
169°	5581
170°	6145
171°	6681
172°	7206
173°	7698
174°	8083
175°	8425
176°	8699
177°	8904
178°	9054
179°	9159
180°	9218

(END OF REPORT)