

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: P221883

Luminaire Tested: **9004-W2-[RW, RI]-LED4080-W-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221883
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29494)
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-W-BK-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 4000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1995.6 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.83
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

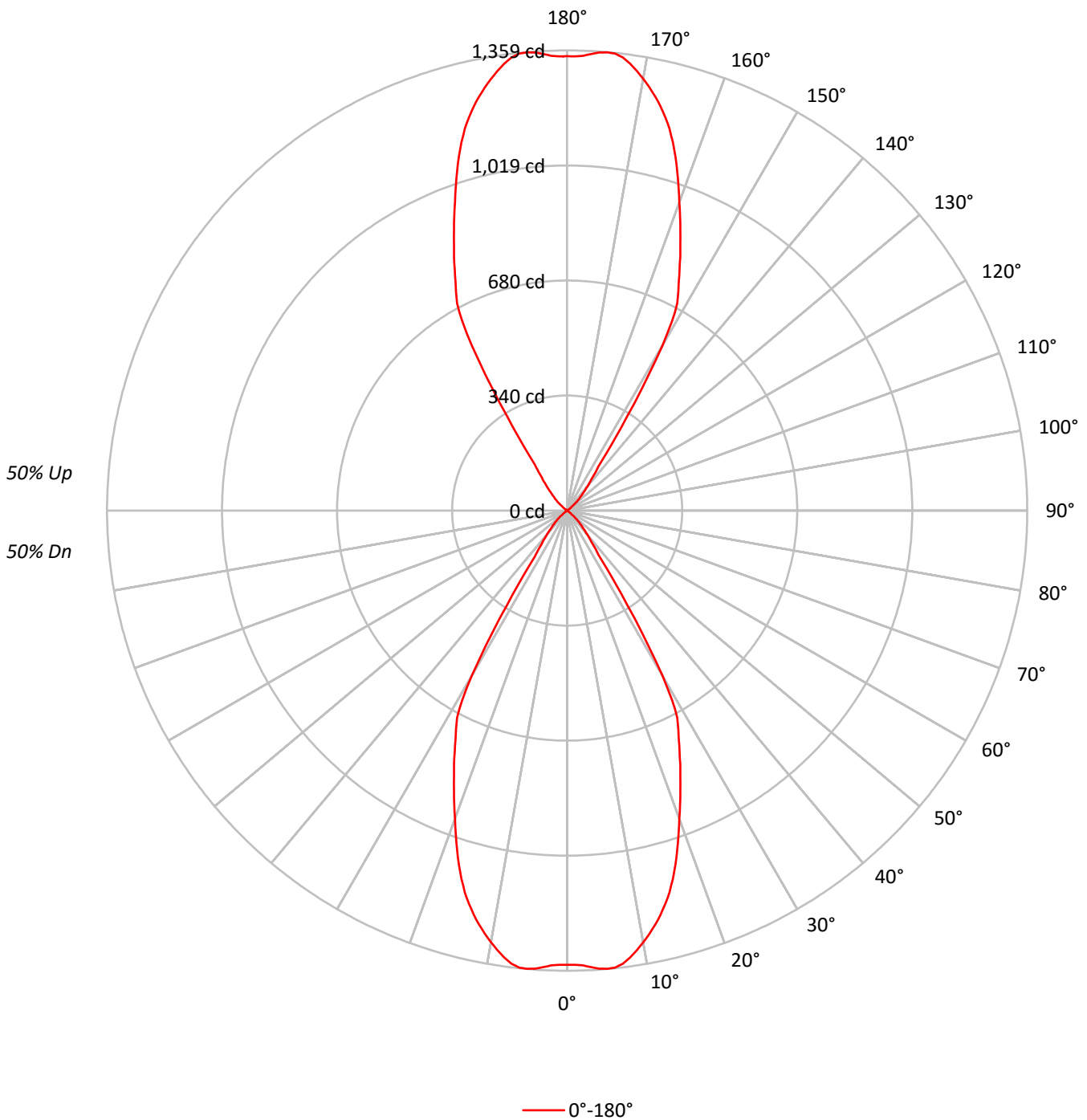
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	93	90	87	85	77	75	74	65	64	63	53	53	52	47
2	94	88	83	79	87	82	78	75	71	68	66	60	59	57	51	50	49	44
3	88	80	75	70	81	75	70	67	65	62	59	56	54	52	48	47	45	42
4	82	74	68	63	76	69	64	60	61	57	54	53	50	48	46	44	42	39
5	77	68	62	57	72	64	58	54	57	52	49	50	47	44	43	41	40	37
6	72	63	56	52	68	59	54	50	53	49	45	47	44	41	41	39	37	35
7	68	58	52	47	64	55	50	46	49	45	42	44	41	38	39	37	35	33
8	64	54	48	44	60	52	46	42	46	42	39	41	38	36	37	35	33	31
9	61	51	45	40	57	48	43	39	44	39	36	39	36	34	35	33	31	29
10	58	48	42	38	54	45	40	36	41	37	34	37	34	32	33	31	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	165517
5°	168217
10°	162159
15°	149048
20°	127245
25°	106904
30°	80016
35°	25116
40°	14878
45°	9036
50°	3761
55°	624
60°	419
65°	233
70°	144
75°	191
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.6	6.4
10°-20°	321.9	16.1
20°-30°	358.5	18.0
30°-40°	143.1	7.2
40°-50°	40.9	2.0
50°-60°	4.5	0.2
60°-70°	0.9	0.0
70°-80°	0.4	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.4	0.0
110°-120°	0.9	0.0
120°-130°	4.5	0.2
130°-140°	40.9	2.0
140°-150°	143.1	7.2
150°-160°	358.5	18.0
160°-170°	321.9	16.1
170°-180°	127.6	6.4
0°-30°	808.1	40.5
0°-40°	951.2	47.7
0°-60°	996.6	49.9
0°-90°	997.8	50.0
90°-120°	1.2	0.1
90°-150°	189.7	9.5
90°-180°	998.0	50.0
0°-180°	1995.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1342	
5°	1359	128
15°	1167	322
25°	786	359
35°	167	143
45°	52	41
55°	3	5
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	3	5
135°	52	41
145°	167	143
155°	786	359
165°	1167	322
175°	1359	128
180°	1342	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1341.9
1°	1341.5
2°	1344.0
3°	1350.3
4°	1356.1
5°	1358.6
6°	1357.0
7°	1348.2
8°	1333.1
9°	1314.7
10°	1294.7
11°	1272.9
12°	1250.4
13°	1225.3
14°	1197.7
15°	1167.2
16°	1131.6
17°	1093.6
18°	1052.2
19°	1010.0
20°	969.4
21°	930.1
22°	892.5
23°	855.7
24°	821.0
25°	785.5
26°	752.1
27°	723.2
28°	693.1
29°	640.0
30°	561.8
32.5°	328.6
35°	166.8
37.5°	123.3
40°	92.4
42.5°	68.6
45°	51.8
47.5°	38.5
50°	19.6
52.5°	5.0
55°	2.9
57.5°	2.1
60°	1.7
62.5°	1.3
65°	0.8



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.4
70°	0.4
72.5°	0.4
75°	0.4
77.5°	0.4
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°	0.4
105°	0.4
107.5°	0.4
110°	0.4
112.5°	0.4
115°	0.8
117.5°	1.3
120°	1.7
122.5°	2.1
125°	2.9
127.5°	5.0
130°	19.6
132.5°	38.5
135°	51.8
137.5°	68.6
140°	92.4
142.5°	123.3
145°	166.8
147.5°	328.6
150°	561.8
151°	640.0
152°	693.1
153°	723.2
154°	752.1
155°	785.5
156°	821.0
157°	855.7
158°	892.5
159°	930.1
160°	969.4
161°	1010.0



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CANDELA DISTRIBUTION (continued):

	0°
162°	1052.2
163°	1093.6
164°	1131.6
165°	1167.2
166°	1197.7
167°	1225.3
168°	1250.4
169°	1272.9
170°	1294.7
171°	1314.7
172°	1333.1
173°	1348.2
174°	1357.0
175°	1358.6
176°	1356.1
177°	1350.3
178°	1344.0
179°	1341.5
180°	1341.9

(END OF REPORT)