

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: P221741

Luminaire Tested: **9004-W2-[RW, RI]-LED2790-W-BK-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221741
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]-LED2790-W-BK-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 2700K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3601.8 lumens
Efficiency: N/A
Efficacy: 63.0 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

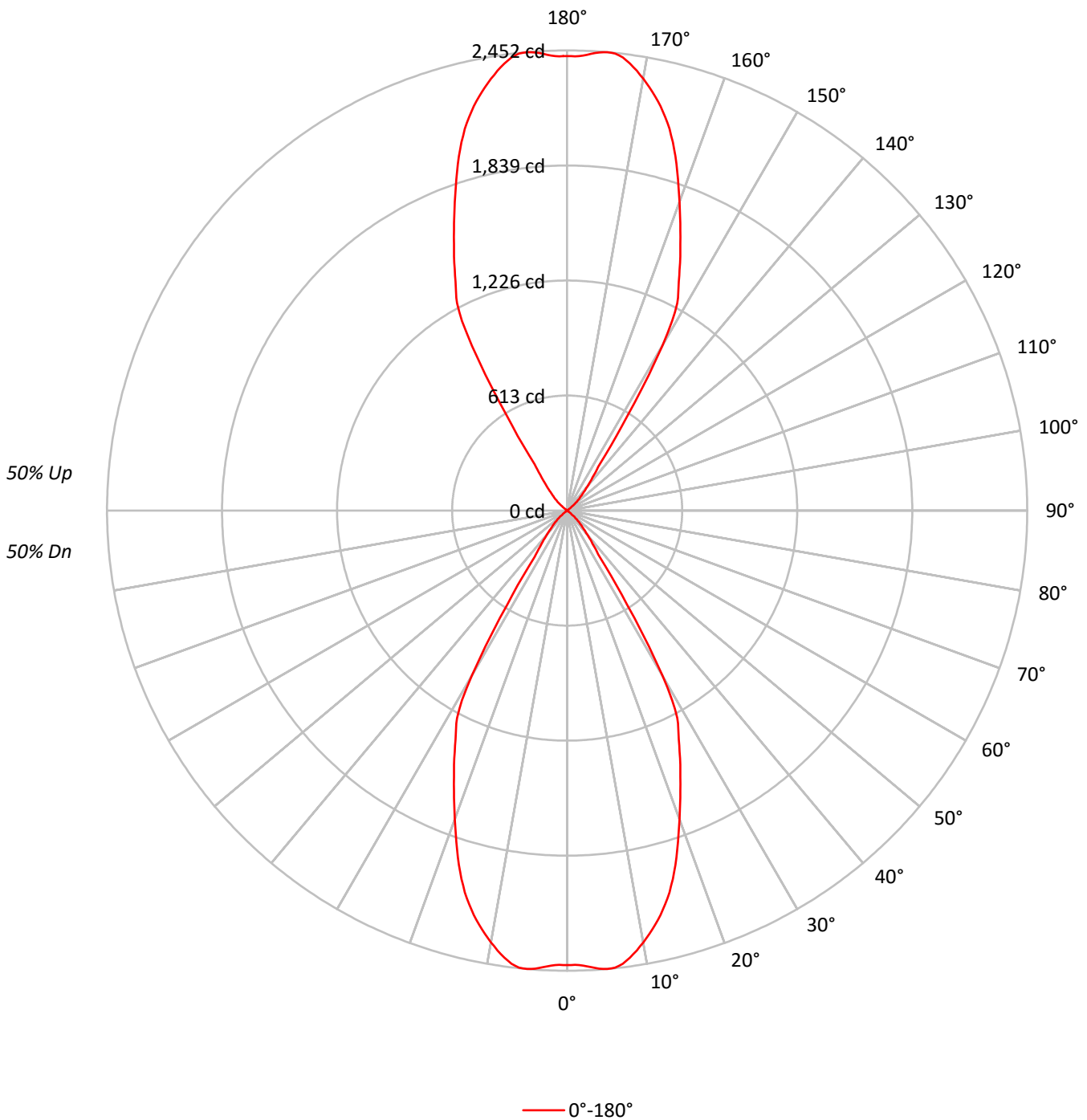
Input Watts (W): 57.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	298706
5°	303586
10°	292643
15°	268981
20°	229642
25°	192931
30°	144421
35°	45324
40°	26841
45°	16327
50°	6812
55°	1140
60°	740
65°	438
70°	289
75°	381
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.4	6.4
10°-20°	581.0	16.1
20°-30°	647.1	18.0
30°-40°	258.2	7.2
40°-50°	73.8	2.0
50°-60°	8.2	0.2
60°-70°	1.6	0.0
70°-80°	0.7	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.7	0.0
110°-120°	1.6	0.0
120°-130°	8.2	0.2
130°-140°	73.8	2.0
140°-150°	258.2	7.2
150°-160°	647.1	18.0
160°-170°	581.0	16.1
170°-180°	230.4	6.4
0°-30°	1458.4	40.5
0°-40°	1716.6	47.7
0°-60°	1798.6	49.9
0°-90°	1800.9	50.0
90°-120°	2.3	0.1
90°-150°	342.5	9.5
90°-180°	1801.0	50.0
0°-180°	3601.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2422	
5°	2452	230
15°	2106	581
25°	1418	647
35°	301	258
45°	94	74
55°	5	8
65°	2	2
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	2
125°	5	8
135°	94	74
145°	301	258
155°	1418	647
165°	2106	581
175°	2452	230
180°	2422	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2421.7
1°	2421.0
2°	2425.5
3°	2436.8
4°	2447.4
5°	2451.9
6°	2448.9
7°	2433.1
8°	2405.9
9°	2372.7
10°	2336.5
11°	2297.3
12°	2256.5
13°	2211.3
14°	2161.5
15°	2106.4
16°	2042.3
17°	1973.6
18°	1898.9
19°	1822.7
20°	1749.5
21°	1678.6
22°	1610.7
23°	1544.3
24°	1481.7
25°	1417.6
26°	1357.2
27°	1305.2
28°	1250.9
29°	1155.0
30°	1014.0
32.5°	593.0
35°	301.0
37.5°	222.6
40°	166.7
42.5°	123.7
45°	93.6
47.5°	69.4
50°	35.5
52.5°	9.1
55°	5.3
57.5°	3.8
60°	3.0
62.5°	2.3
65°	1.5



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.8
70°	0.8
72.5°	0.8
75°	0.8
77.5°	0.8
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°	0.8
105°	0.8
107.5°	0.8
110°	0.8
112.5°	0.8
115°	1.5
117.5°	2.3
120°	3.0
122.5°	3.8
125°	5.3
127.5°	9.1
130°	35.5
132.5°	69.4
135°	93.6
137.5°	123.7
140°	166.7
142.5°	222.6
145°	301.0
147.5°	593.0
150°	1014.0
151°	1155.0
152°	1250.9
153°	1305.2
154°	1357.2
155°	1417.6
156°	1481.7
157°	1544.3
158°	1610.7
159°	1678.6
160°	1749.5
161°	1822.7



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CANDELA DISTRIBUTION (continued):

	0°
162°	1898.9
163°	1973.6
164°	2042.3
165°	2106.4
166°	2161.5
167°	2211.3
168°	2256.5
169°	2297.3
170°	2336.5
171°	2372.7
172°	2405.9
173°	2433.1
174°	2448.9
175°	2451.9
176°	2447.4
177°	2436.8
178°	2425.5
179°	2421.0
180°	2421.7

(END OF REPORT)