

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: P221746

Luminaire Tested: **9004-W2-[RW, RI]-LED2797-F-BK-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221746
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29493)
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]-LED2797-F-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 2700K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2711.0 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.56
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

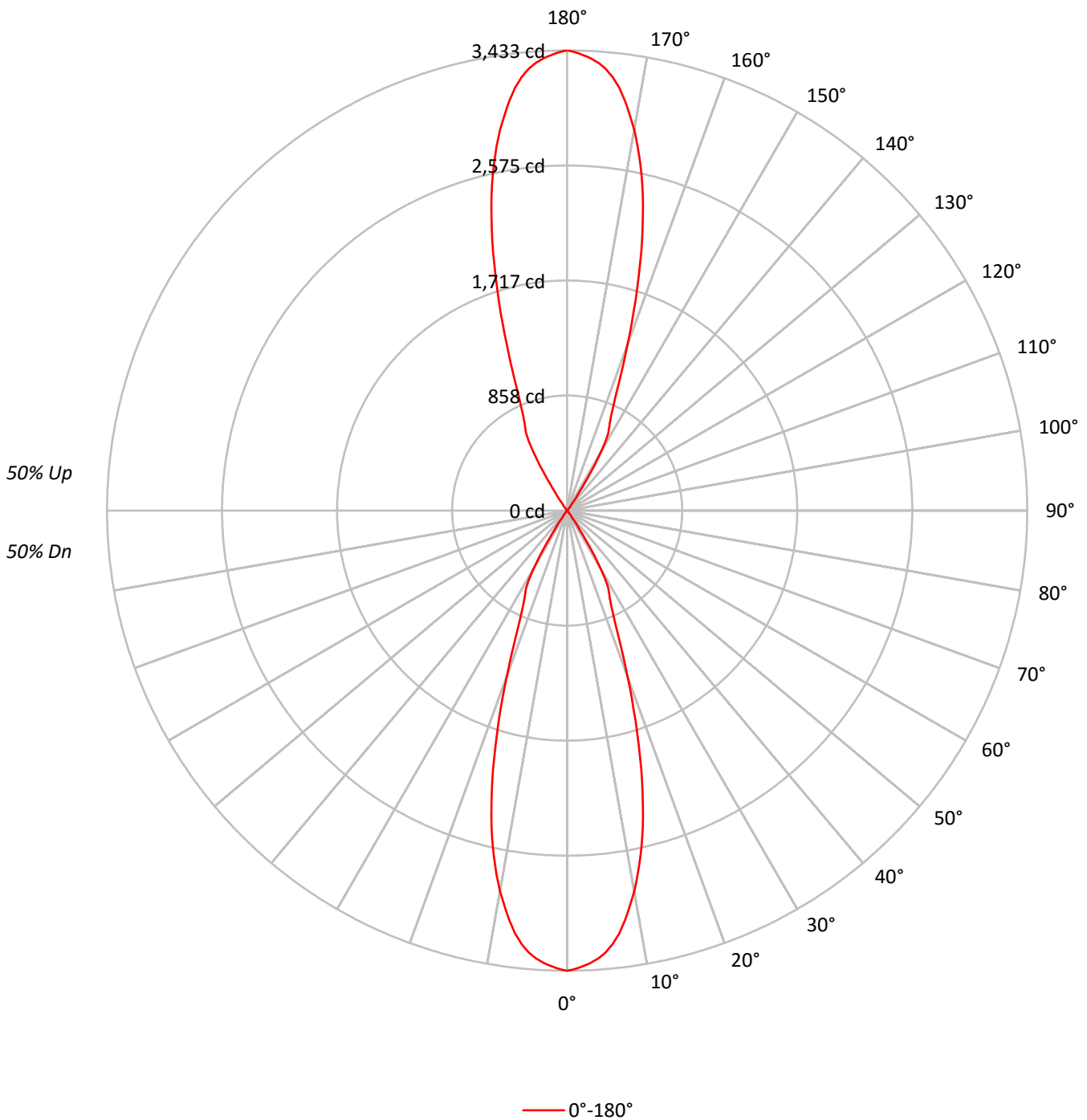
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	95	92	93	90	88	86	77	76	74	65	64	63	54	53	53	48
2	95	89	85	81	88	83	79	76	72	69	67	61	60	58	52	51	50	46
3	89	82	77	73	83	77	72	69	67	64	61	58	56	54	50	49	47	44
4	84	76	70	66	78	71	66	63	63	59	57	55	53	51	48	46	45	42
5	79	71	65	60	74	67	61	58	59	55	53	52	50	48	46	44	43	40
6	75	66	60	55	70	62	57	53	56	52	49	50	47	45	44	42	41	38
7	71	62	56	52	67	59	53	50	53	49	46	48	45	43	42	41	39	37
8	68	58	52	48	64	55	50	47	50	46	44	45	43	40	41	39	37	35
9	64	55	49	45	61	52	47	44	48	44	41	43	41	39	39	37	36	34
10	61	52	46	43	58	50	45	41	46	42	39	42	39	37	38	36	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	423470
5°	409450
10°	361054
15°	277958
20°	172438
25°	105489
30°	71798
35°	9501
40°	2689
45°	663
50°	518
55°	344
60°	271
65°	321
70°	180
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.1	11.1
10°-20°	583.9	21.5
20°-30°	374.4	13.8
30°-40°	88.2	3.3
40°-50°	4.2	0.2
50°-60°	1.6	0.1
60°-70°	0.9	0.0
70°-80°	0.2	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.3	0.0
110°-120°	0.9	0.0
120°-130°	1.6	0.1
130°-140°	4.2	0.2
140°-150°	88.2	3.3
150°-160°	374.4	13.8
160°-170°	583.9	21.5
170°-180°	302.1	11.1
0°-30°	1260.4	46.5
0°-40°	1348.7	49.7
0°-60°	1354.4	50.0
0°-90°	1355.5	50.0
90°-120°	1.2	0.0
90°-150°	95.2	3.5
90°-180°	1356.0	50.0
0°-180°	2711.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3433	
5°	3307	302
15°	2177	584
25°	775	374
35°	63	88
45°	4	4
55°	2	2
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	2	2
135°	4	4
145°	63	88
155°	775	374
165°	2177	584
175°	3307	302
180°	3433	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3433.2
1°	3420.8
2°	3400.8
3°	3378.2
4°	3348.5
5°	3306.9
6°	3251.3
7°	3180.6
8°	3088.9
9°	2989.0
10°	2882.7
11°	2762.3
12°	2633.3
13°	2493.5
14°	2338.6
15°	2176.7
16°	2005.1
17°	1827.5
18°	1650.5
19°	1478.9
20°	1313.7
21°	1166.9
22°	1035.7
23°	925.6
24°	842.0
25°	775.1
26°	724.9
27°	686.0
28°	651.5
29°	592.6
30°	504.1
32.5°	240.7
35°	63.1
37.5°	33.5
40°	16.7
42.5°	5.4
45°	3.8
47.5°	3.2
50°	2.7
52.5°	2.2
55°	1.6
57.5°	1.6
60°	1.1
62.5°	1.1
65°	1.1



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.5
70°	0.5
72.5°	0.5
75°	0.0
77.5°	0.0
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°	0.0
105°	0.0
107.5°	0.5
110°	0.5
112.5°	0.5
115°	1.1
117.5°	1.1
120°	1.1
122.5°	1.6
125°	1.6
127.5°	2.2
130°	2.7
132.5°	3.2
135°	3.8
137.5°	5.4
140°	16.7
142.5°	33.5
145°	63.1
147.5°	240.7
150°	504.1
151°	592.6
152°	651.5
153°	686.0
154°	724.9
155°	775.1
156°	842.0
157°	925.6
158°	1035.7
159°	1166.9
160°	1313.7
161°	1478.9



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CANDELA DISTRIBUTION (continued):

	0°
162°	1650.5
163°	1827.5
164°	2005.1
165°	2176.7
166°	2338.6
167°	2493.5
168°	2633.3
169°	2762.3
170°	2882.7
171°	2989.0
172°	3088.9
173°	3180.6
174°	3251.3
175°	3306.9
176°	3348.5
177°	3378.2
178°	3400.8
179°	3420.8
180°	3433.2

(END OF REPORT)