

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: P221755

Luminaire Tested: **9004-W2-[RW, RI]-LED2797-M-WT-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221755
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]-LED2797-M-WT-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 2700K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2858.2 lumens
Efficiency: N/A
Efficacy: 71.1 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

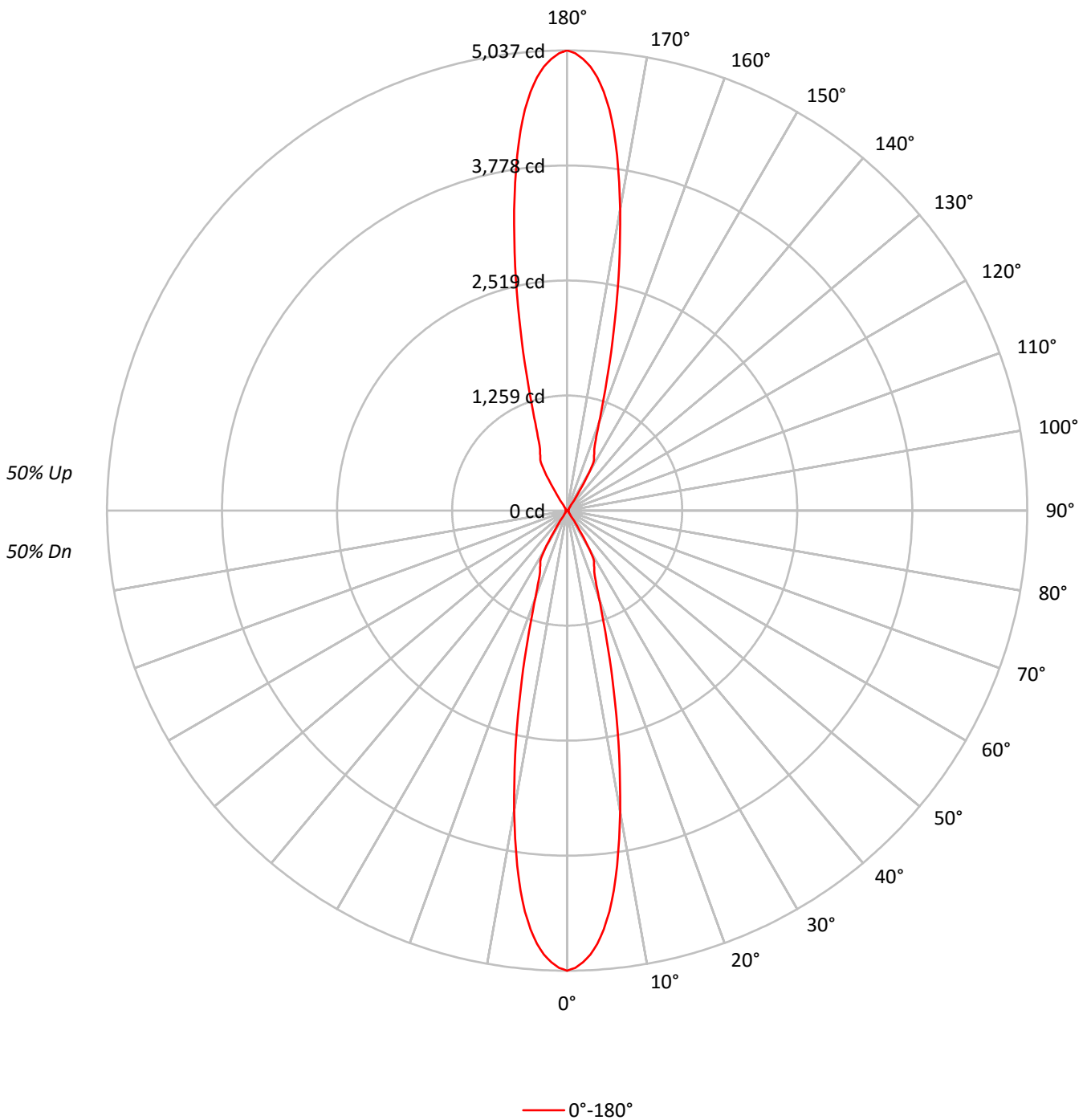
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	621329
5°	569768
10°	418104
15°	244884
20°	133611
25°	95200
30°	70416
35°	10164
40°	5555
45°	3960
50°	4030
55°	4172
60°	4662
65°	5195
70°	6023
75°	7482
80°	8808
85°	8350



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.3	13.9
10°-20°	533.2	18.7
20°-30°	329.2	11.5
30°-40°	91.8	3.2
40°-50°	18.5	0.6
50°-60°	17.6	0.6
60°-70°	17.8	0.6
70°-80°	16.0	0.6
80°-90°	6.7	0.2
90°-100°	6.7	0.2
100°-110°	16.0	0.6
110°-120°	17.8	0.6
120°-130°	17.6	0.6
130°-140°	18.5	0.6
140°-150°	91.8	3.2
150°-160°	329.2	11.5
160°-170°	533.2	18.7
170°-180°	398.3	13.9
0°-30°	1260.7	44.1
0°-40°	1352.4	47.3
0°-60°	1388.6	48.6
0°-90°	1429.1	50.0
90°-120°	40.4	1.4
90°-150°	168.4	5.9
90°-180°	1429.0	50.0
0°-180°	2858.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5037	
5°	4602	398
15°	1918	533
25°	700	329
35°	68	92
45°	23	19
55°	19	18
65°	18	18
75°	16	16
85°	6	6
90°	0	1
95°	6	6
105°	16	16
115°	18	18
125°	19	18
135°	23	19
145°	68	92
155°	700	329
165°	1918	533
175°	4602	398
180°	5037	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5037.3
1°	5006.0
2°	4948.2
3°	4866.2
4°	4753.4
5°	4601.7
6°	4413.9
7°	4190.5
8°	3923.8
9°	3637.2
10°	3338.2
11°	3033.8
12°	2733.2
13°	2440.1
14°	2168.1
15°	1917.7
16°	1687.2
17°	1480.5
18°	1299.1
19°	1144.2
20°	1017.9
21°	913.8
22°	835.5
23°	776.1
24°	731.9
25°	699.5
26°	673.0
27°	649.8
28°	627.7
29°	578.0
30°	494.4
32.5°	239.6
35°	67.5
37.5°	46.4
40°	34.5
42.5°	24.3
45°	22.7
47.5°	21.6
50°	21.0
52.5°	20.0
55°	19.4
57.5°	19.4
60°	18.9
62.5°	18.9
65°	17.8



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	17.3
70°	16.7
72.5°	16.2
75°	15.7
77.5°	14.0
80°	12.4
82.5°	9.7
85°	5.9
87.5°	2.7
90°	0.0
92.5°	2.7
95°	5.9
97.5°	9.7
100°	12.4
102.5°	14.0
105°	15.7
107.5°	16.2
110°	16.7
112.5°	17.3
115°	17.8
117.5°	18.9
120°	18.9
122.5°	19.4
125°	19.4
127.5°	20.0
130°	21.0
132.5°	21.6
135°	22.7
137.5°	24.3
140°	34.5
142.5°	46.4
145°	67.5
147.5°	239.6
150°	494.4
151°	578.0
152°	627.7
153°	649.8
154°	673.0
155°	699.5
156°	731.9
157°	776.1
158°	835.5
159°	913.8
160°	1017.9
161°	1144.2



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CANDELA DISTRIBUTION (continued):

	0°
162°	1299.1
163°	1480.5
164°	1687.2
165°	1917.7
166°	2168.1
167°	2440.1
168°	2733.2
169°	3033.8
170°	3338.2
171°	3637.2
172°	3923.8
173°	4190.5
174°	4413.9
175°	4601.7
176°	4753.4
177°	4866.2
178°	4948.2
179°	5006.0
180°	5037.3

(END OF REPORT)