

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: P221729

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221729
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]-LED2790-M-BK-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 2700K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3734.4 lumens
Efficiency: N/A
Efficacy: 65.5 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

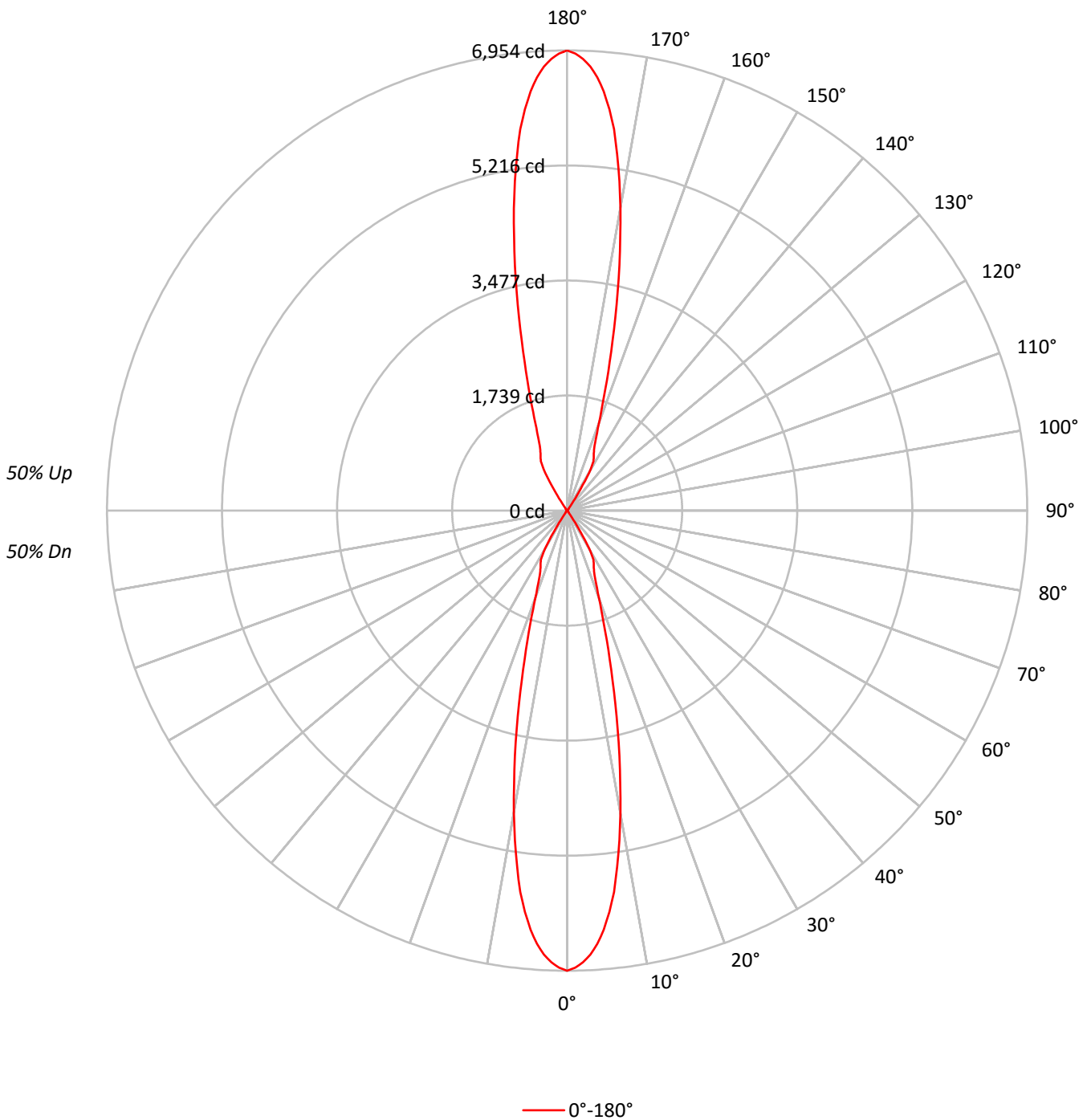
Input Watts (W): 57
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	857795
5°	786992
10°	580652
15°	338920
20°	183793
25°	129891
30°	94130
35°	11700
40°	4009
45°	1587
50°	1017
55°	817
60°	567
65°	438
70°	289
75°	381
80°	568
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	551.1	14.8
10°-20°	739.1	19.8
20°-30°	448.3	12.0
30°-40°	114.7	3.1
40°-50°	8.2	0.2
50°-60°	3.4	0.1
60°-70°	1.5	0.0
70°-80°	0.8	0.0
80°-90°	0.1	0.0
90°-100°	0.1	0.0
100°-110°	0.8	0.0
110°-120°	1.5	0.0
120°-130°	3.4	0.1
130°-140°	8.2	0.2
140°-150°	114.7	3.1
150°-160°	448.3	12.0
160°-170°	739.1	19.8
170°-180°	551.1	14.8
0°-30°	1738.5	46.6
0°-40°	1853.2	49.6
0°-60°	1864.8	49.9
0°-90°	1867.2	50.0
90°-120°	2.5	0.1
90°-150°	128.7	3.4
90°-180°	1867.0	50.0
0°-180°	3734.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6954	
5°	6356	551
15°	2654	739
25°	954	448
35°	78	115
45°	9	8
55°	4	3
65°	2	2
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	2
125°	4	3
135°	9	8
145°	78	115
155°	954	448
165°	2654	739
175°	6356	551
180°	6954	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6954.4
1°	6909.9
2°	6830.7
3°	6717.5
4°	6562.9
5°	6356.1
6°	6098.1
7°	5807.7
8°	5436.5
9°	5040.4
10°	4636.0
11°	4210.5
12°	3792.6
13°	3392.7
14°	3008.7
15°	2654.1
16°	2337.2
17°	2051.3
18°	1796.3
19°	1581.3
20°	1400.2
21°	1257.6
22°	1144.5
23°	1060.7
24°	1001.1
25°	954.4
26°	916.6
27°	884.2
28°	845.7
29°	775.6
30°	660.9
32.5°	314.6
35°	77.7
37.5°	42.2
40°	24.9
42.5°	11.3
45°	9.1
47.5°	7.5
50°	5.3
52.5°	4.5
55°	3.8
57.5°	3.0
60°	2.3
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°	0.8
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°	0.8
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°	2.3
122.5°	3.0
125°	3.8
127.5°	4.5
130°	5.3
132.5°	7.5
135°	9.1
137.5°	11.3
140°	24.9
142.5°	42.2
145°	77.7
147.5°	314.6
150°	660.9
151°	775.6
152°	845.7
153°	884.2
154°	916.6
155°	954.4
156°	1001.1
157°	1060.7
158°	1144.5
159°	1257.6
160°	1400.2
161°	1581.3



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CANDELA DISTRIBUTION (continued):

	0°
162°	1796.3
163°	2051.3
164°	2337.2
165°	2654.1
166°	3008.7
167°	3392.7
168°	3792.6
169°	4210.5
170°	4636.0
171°	5040.4
172°	5436.5
173°	5807.7
174°	6098.1
175°	6356.1
176°	6562.9
177°	6717.5
178°	6830.7
179°	6909.9
180°	6954.4

(END OF REPORT)