

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: P221780

Luminaire Tested: **9004-W2-[RW, RI]-LED3090-M-WT-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221780
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]-LED3090-M-WT-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3000K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4226.1 lumens
Efficiency: N/A
Efficacy: 74.1 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

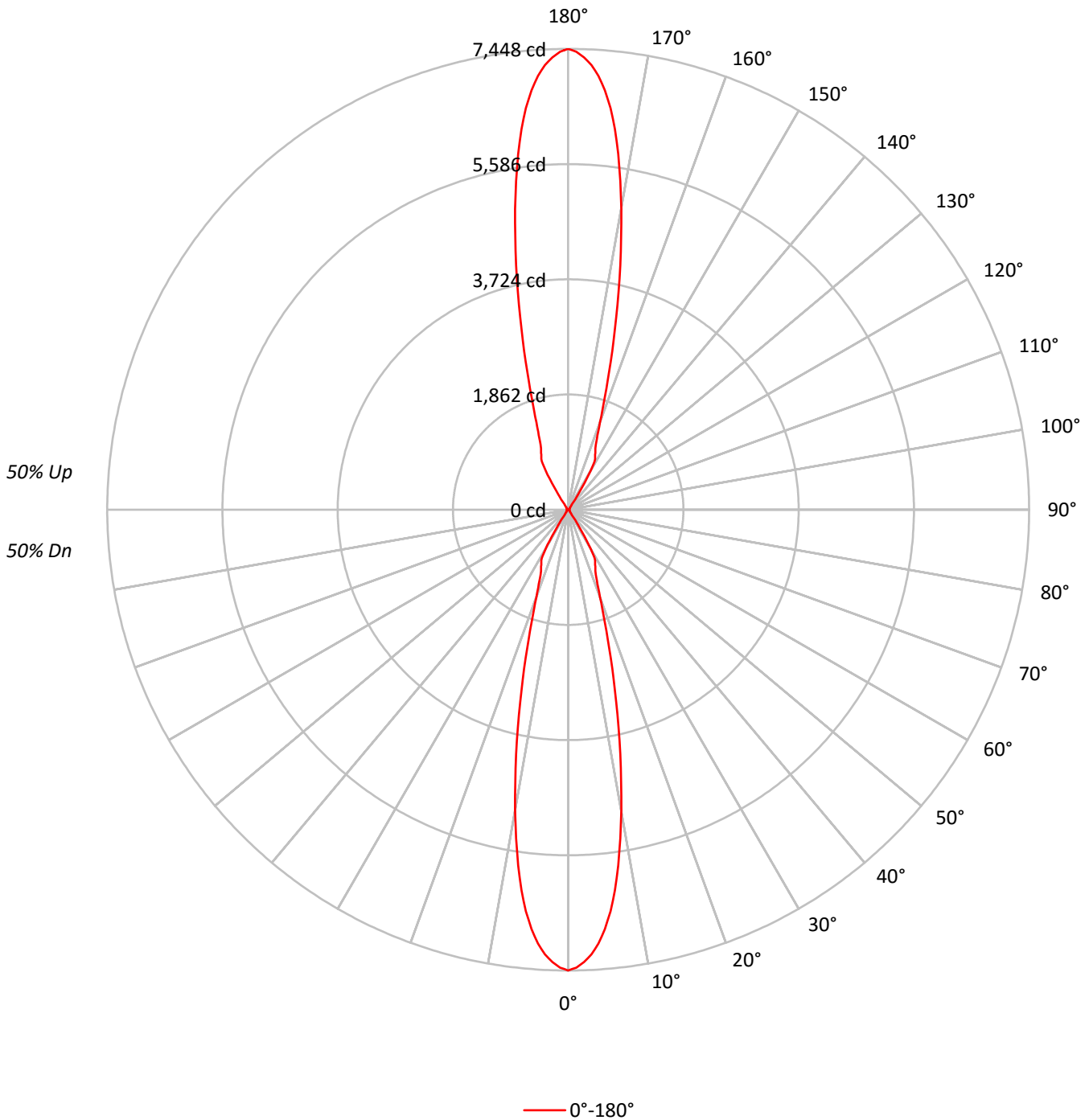
Input Watts (W): 57
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	918715
5°	842487
10°	618226
15°	362084
20°	197562
25°	140765
30°	104114
35°	15028
40°	8228
45°	5844
50°	5968
55°	6172
60°	6883
65°	7676
70°	8908
75°	11009
80°	13070
85°	12454



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	588.9	13.9
10°-20°	788.5	18.7
20°-30°	486.7	11.5
30°-40°	135.7	3.2
40°-50°	27.4	0.6
50°-60°	26.1	0.6
60°-70°	26.3	0.6
70°-80°	23.6	0.6
80°-90°	9.9	0.2
90°-100°	9.9	0.2
100°-110°	23.6	0.6
110°-120°	26.3	0.6
120°-130°	26.1	0.6
130°-140°	27.4	0.6
140°-150°	135.7	3.2
150°-160°	486.7	11.5
160°-170°	788.5	18.7
170°-180°	588.9	13.9
0°-30°	1864.1	44.1
0°-40°	1999.8	47.3
0°-60°	2053.3	48.6
0°-90°	2113.0	50.0
90°-120°	59.8	1.4
90°-150°	248.9	5.9
90°-180°	2113.0	50.0
0°-180°	4226.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7448	
5°	6804	589
15°	2836	788
25°	1034	487
35°	100	136
45°	34	27
55°	29	26
65°	26	26
75°	23	24
85°	9	9
90°	0	1
95°	9	9
105°	23	24
115°	26	26
125°	29	26
135°	34	27
145°	100	136
155°	1034	487
165°	2836	788
175°	6804	589
180°	7448	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7448.3
1°	7402.0
2°	7316.6
3°	7195.3
4°	7028.5
5°	6804.3
6°	6526.6
7°	6196.2
8°	5801.9
9°	5378.1
10°	4936.0
11°	4485.9
12°	4041.4
13°	3608.0
14°	3205.8
15°	2835.5
16°	2494.7
17°	2189.1
18°	1920.9
19°	1691.9
20°	1505.1
21°	1351.1
22°	1235.4
23°	1147.6
24°	1082.2
25°	1034.3
26°	995.2
27°	960.9
28°	928.1
29°	854.7
30°	731.0
32.5°	354.3
35°	99.8
37.5°	68.6
40°	51.1
42.5°	35.9
45°	33.5
47.5°	31.9
50°	31.1
52.5°	29.5
55°	28.7
57.5°	28.7
60°	27.9
62.5°	27.9
65°	26.3



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	25.5
70°	24.7
72.5°	23.9
75°	23.1
77.5°	20.7
80°	18.4
82.5°	14.4
85°	8.8
87.5°	4.0
90°	0.0
92.5°	4.0
95°	8.8
97.5°	14.4
100°	18.4
102.5°	20.7
105°	23.1
107.5°	23.9
110°	24.7
112.5°	25.5
115°	26.3
117.5°	27.9
120°	27.9
122.5°	28.7
125°	28.7
127.5°	29.5
130°	31.1
132.5°	31.9
135°	33.5
137.5°	35.9
140°	51.1
142.5°	68.6
145°	99.8
147.5°	354.3
150°	731.0
151°	854.7
152°	928.1
153°	960.9
154°	995.2
155°	1034.3
156°	1082.2
157°	1147.6
158°	1235.4
159°	1351.1
160°	1505.1
161°	1691.9



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CANDELA DISTRIBUTION (continued):

	0°
162°	1920.9
163°	2189.1
164°	2494.7
165°	2835.5
166°	3205.8
167°	3608.0
168°	4041.4
169°	4485.9
170°	4936.0
171°	5378.1
172°	5801.9
173°	6196.2
174°	6526.6
175°	6804.3
176°	7028.5
177°	7195.3
178°	7316.6
179°	7402.0
180°	7448.3

(END OF REPORT)