

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: P221804

Luminaire Tested: **9004-W2-[RW, RI]-LED3097-M-WT-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221804
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]-LED3097-M-WT-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3737.9 lumens
Efficiency: N/A
Efficacy: 65.6 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

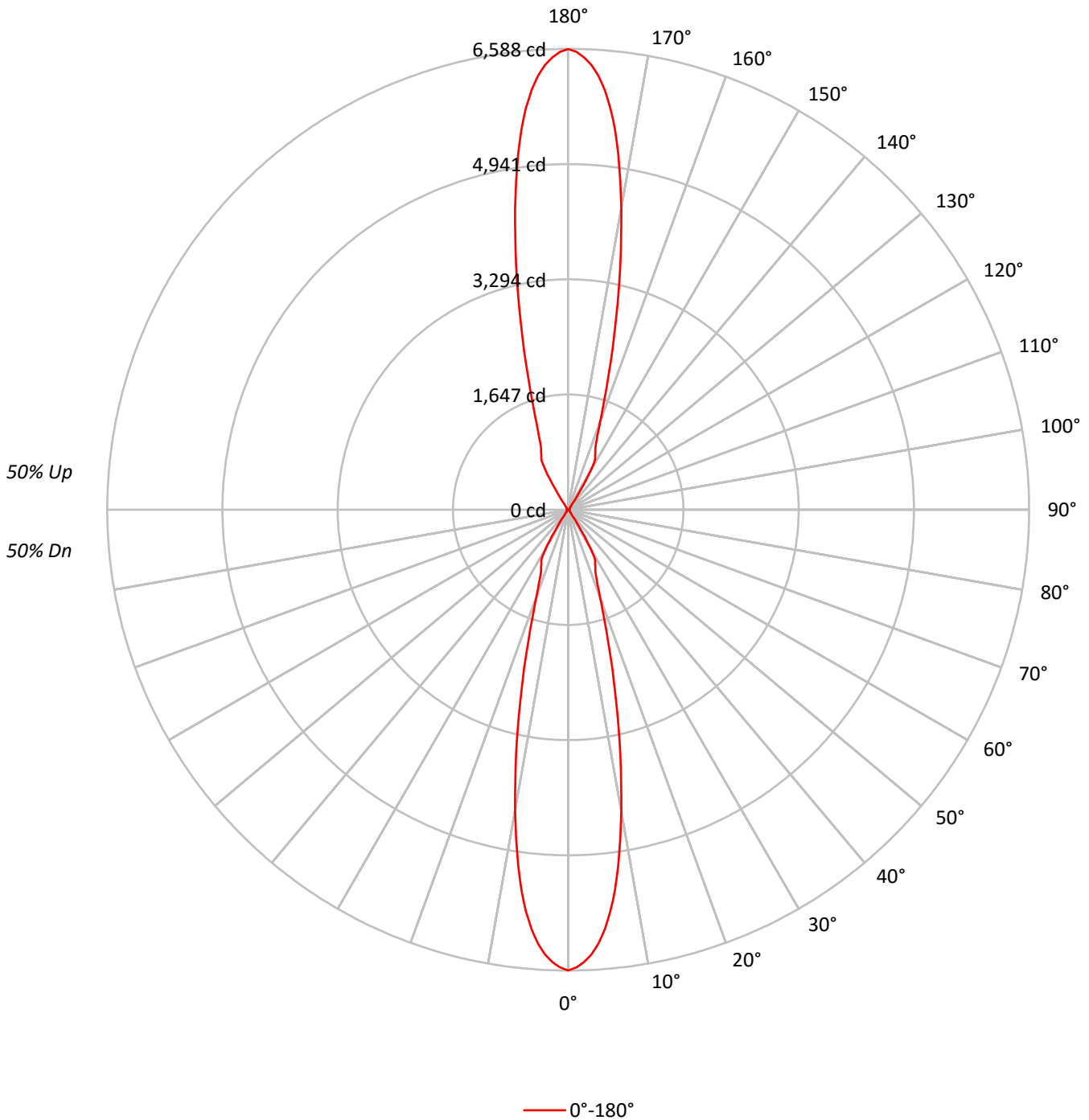
Input Watts (W): 57
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	812552
5°	745129
10°	546785
15°	320238
20°	174736
25°	124501
30°	92079
35°	13281
40°	7278
45°	5163
50°	5277
55°	5462
60°	6093
65°	6800
70°	7898
75°	9770
80°	11507
85°	11039



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	520.8	13.9
10°-20°	697.4	18.7
20°-30°	430.5	11.5
30°-40°	120.0	3.2
40°-50°	24.2	0.6
50°-60°	23.1	0.6
60°-70°	23.3	0.6
70°-80°	20.9	0.6
80°-90°	8.7	0.2
90°-100°	8.7	0.2
100°-110°	20.9	0.6
110°-120°	23.3	0.6
120°-130°	23.1	0.6
130°-140°	24.2	0.6
140°-150°	120.0	3.2
150°-160°	430.5	11.5
160°-170°	697.4	18.7
170°-180°	520.8	13.9
0°-30°	1648.7	44.1
0°-40°	1768.7	47.3
0°-60°	1816.0	48.6
0°-90°	1868.9	50.0
90°-120°	52.9	1.4
90°-150°	220.2	5.9
90°-180°	1869.0	50.0
0°-180°	3737.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6588	
5°	6018	521
15°	2508	697
25°	915	430
35°	88	120
45°	30	24
55°	25	23
65°	23	23
75°	20	21
85°	8	8
90°	0	1
95°	8	8
105°	20	21
115°	23	23
125°	25	23
135°	30	24
145°	88	120
155°	915	430
165°	2508	697
175°	6018	521
180°	6588	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6587.6
1°	6546.6
2°	6471.1
3°	6363.8
4°	6216.3
5°	6018.0
6°	5772.3
7°	5480.1
8°	5131.4
9°	4756.6
10°	4365.6
11°	3967.5
12°	3574.4
13°	3191.1
14°	2835.3
15°	2507.8
16°	2206.4
17°	1936.1
18°	1699.0
19°	1496.4
20°	1331.2
21°	1195.0
22°	1092.6
23°	1015.0
24°	957.1
25°	914.8
26°	880.2
27°	849.8
28°	820.9
29°	756.0
30°	646.5
32.5°	313.4
35°	88.2
37.5°	60.7
40°	45.2
42.5°	31.8
45°	29.6
47.5°	28.2
50°	27.5
52.5°	26.1
55°	25.4
57.5°	25.4
60°	24.7
62.5°	24.7
65°	23.3



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	22.6
70°	21.9
72.5°	21.2
75°	20.5
77.5°	18.4
80°	16.2
82.5°	12.7
85°	7.8
87.5°	3.5
90°	0.0
92.5°	3.5
95°	7.8
97.5°	12.7
100°	16.2
102.5°	18.4
105°	20.5
107.5°	21.2
110°	21.9
112.5°	22.6
115°	23.3
117.5°	24.7
120°	24.7
122.5°	25.4
125°	25.4
127.5°	26.1
130°	27.5
132.5°	28.2
135°	29.6
137.5°	31.8
140°	45.2
142.5°	60.7
145°	88.2
147.5°	313.4
150°	646.5
151°	756.0
152°	820.9
153°	849.8
154°	880.2
155°	914.8
156°	957.1
157°	1015.0
158°	1092.6
159°	1195.0
160°	1331.2
161°	1496.4



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CANDELA DISTRIBUTION (continued):

	0°
162°	1699.0
163°	1936.1
164°	2206.4
165°	2507.8
166°	2835.3
167°	3191.1
168°	3574.4
169°	3967.5
170°	4365.6
171°	4756.6
172°	5131.4
173°	5480.1
174°	5772.3
175°	6018.0
176°	6216.3
177°	6363.8
178°	6471.1
179°	6546.6
180°	6587.6

(END OF REPORT)