

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: P221900

Luminaire Tested: **9004-W2-[RW, RI]-LED4097-M-WT-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221900
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]-LED4097-M-WT-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4198.9 lumens
Efficiency: N/A
Efficacy: 73.7 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

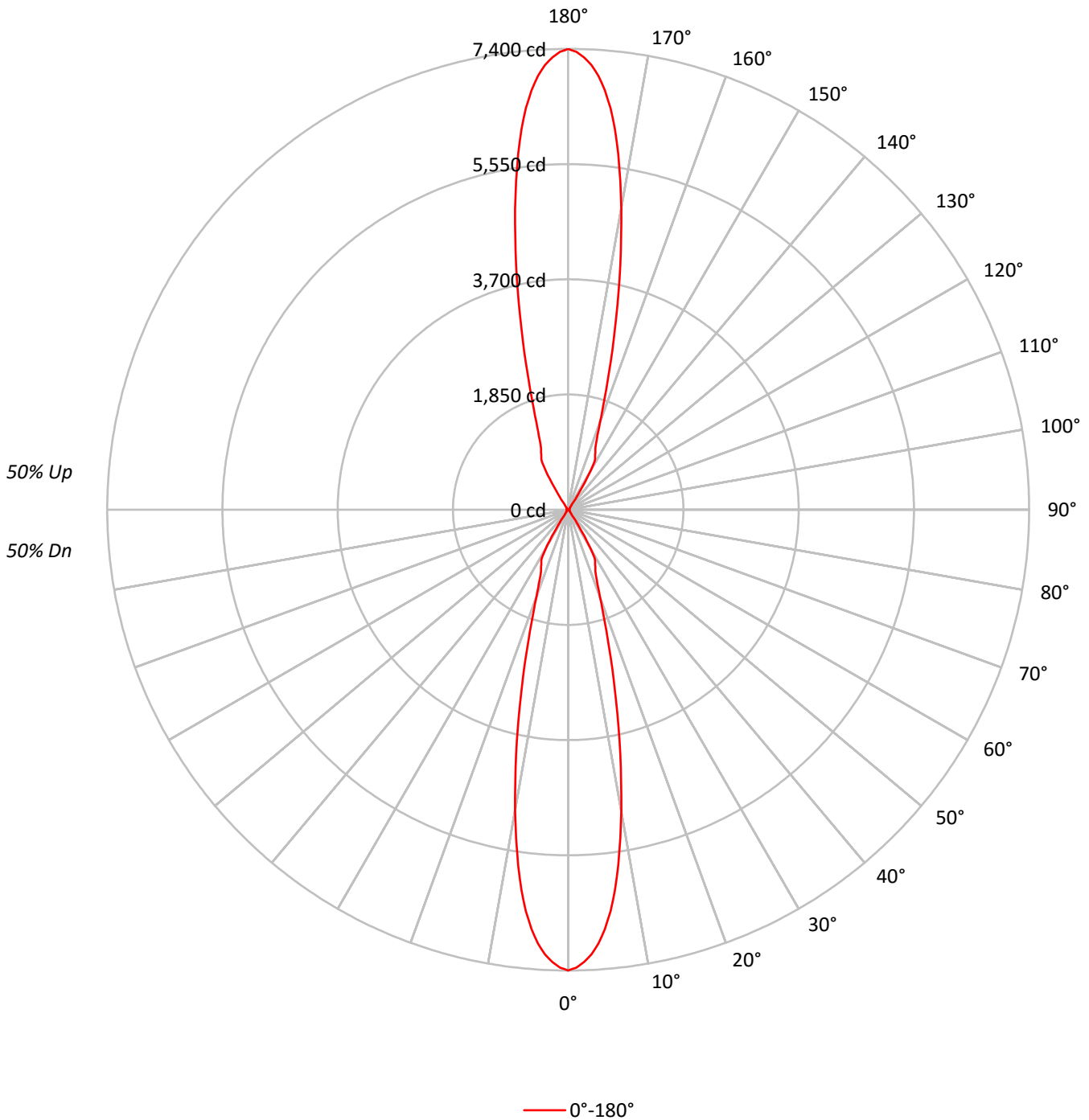
Input Watts (W): 57
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	912782
5°	837039
10°	614231
15°	359747
20°	196289
25°	139853
30°	103445
35°	14922
40°	8164
45°	5809
50°	5929
55°	6129
60°	6858
65°	7647
70°	8872
75°	10961
80°	12928
85°	12313



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	585.1	13.9
10°-20°	783.4	18.7
20°-30°	483.6	11.5
30°-40°	134.8	3.2
40°-50°	27.2	0.6
50°-60°	25.9	0.6
60°-70°	26.2	0.6
70°-80°	23.5	0.6
80°-90°	9.8	0.2
90°-100°	9.8	0.2
100°-110°	23.5	0.6
110°-120°	26.2	0.6
120°-130°	25.9	0.6
130°-140°	27.2	0.6
140°-150°	134.8	3.2
150°-160°	483.6	11.5
160°-170°	783.4	18.7
170°-180°	585.1	13.9
0°-30°	1852.1	44.1
0°-40°	1986.9	47.3
0°-60°	2040.0	48.6
0°-90°	2099.5	50.0
90°-120°	59.5	1.4
90°-150°	247.4	5.9
90°-180°	2099.0	50.0
0°-180°	4198.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7400	
5°	6760	585
15°	2817	783
25°	1028	484
35°	99	135
45°	33	27
55°	28	26
65°	26	26
75°	23	23
85°	9	9
90°	0	1
95°	9	9
105°	23	23
115°	26	26
125°	28	26
135°	33	27
145°	99	135
155°	1028	484
165°	2817	783
175°	6760	585
180°	7400	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7400.2
1°	7354.2
2°	7269.3
3°	7148.8
4°	6983.1
5°	6760.3
6°	6484.4
7°	6156.1
8°	5764.4
9°	5343.4
10°	4904.1
11°	4456.9
12°	4015.3
13°	3584.7
14°	3185.1
15°	2817.2
16°	2478.6
17°	2174.9
18°	1908.5
19°	1681.0
20°	1495.4
21°	1342.4
22°	1227.4
23°	1140.2
24°	1075.2
25°	1027.6
26°	988.7
27°	954.7
28°	922.1
29°	849.2
30°	726.3
32.5°	352.0
35°	99.1
37.5°	68.2
40°	50.7
42.5°	35.7
45°	33.3
47.5°	31.7
50°	30.9
52.5°	29.3
55°	28.5
57.5°	28.5
60°	27.8
62.5°	27.8
65°	26.2



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	25.4
70°	24.6
72.5°	23.8
75°	23.0
77.5°	20.6
80°	18.2
82.5°	14.3
85°	8.7
87.5°	4.0
90°	0.0
92.5°	4.0
95°	8.7
97.5°	14.3
100°	18.2
102.5°	20.6
105°	23.0
107.5°	23.8
110°	24.6
112.5°	25.4
115°	26.2
117.5°	27.8
120°	27.8
122.5°	28.5
125°	28.5
127.5°	29.3
130°	30.9
132.5°	31.7
135°	33.3
137.5°	35.7
140°	50.7
142.5°	68.2
145°	99.1
147.5°	352.0
150°	726.3
151°	849.2
152°	922.1
153°	954.7
154°	988.7
155°	1027.6
156°	1075.2
157°	1140.2
158°	1227.4
159°	1342.4
160°	1495.4
161°	1681.0



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CANDELA DISTRIBUTION (continued):

	0°
162°	1908.5
163°	2174.9
164°	2478.6
165°	2817.2
166°	3185.1
167°	3584.7
168°	4015.3
169°	4456.9
170°	4904.1
171°	5343.4
172°	5764.4
173°	6156.1
174°	6484.4
175°	6760.3
176°	6983.1
177°	7148.8
178°	7269.3
179°	7354.2
180°	7400.2

(END OF REPORT)