

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: P221803

Luminaire Tested: **9004-W2-[RW, RI]-LED3097-M-WT-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221803
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-L2-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: 2885.2 lumens
Efficiency: N/A
Efficacy: 71.8 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

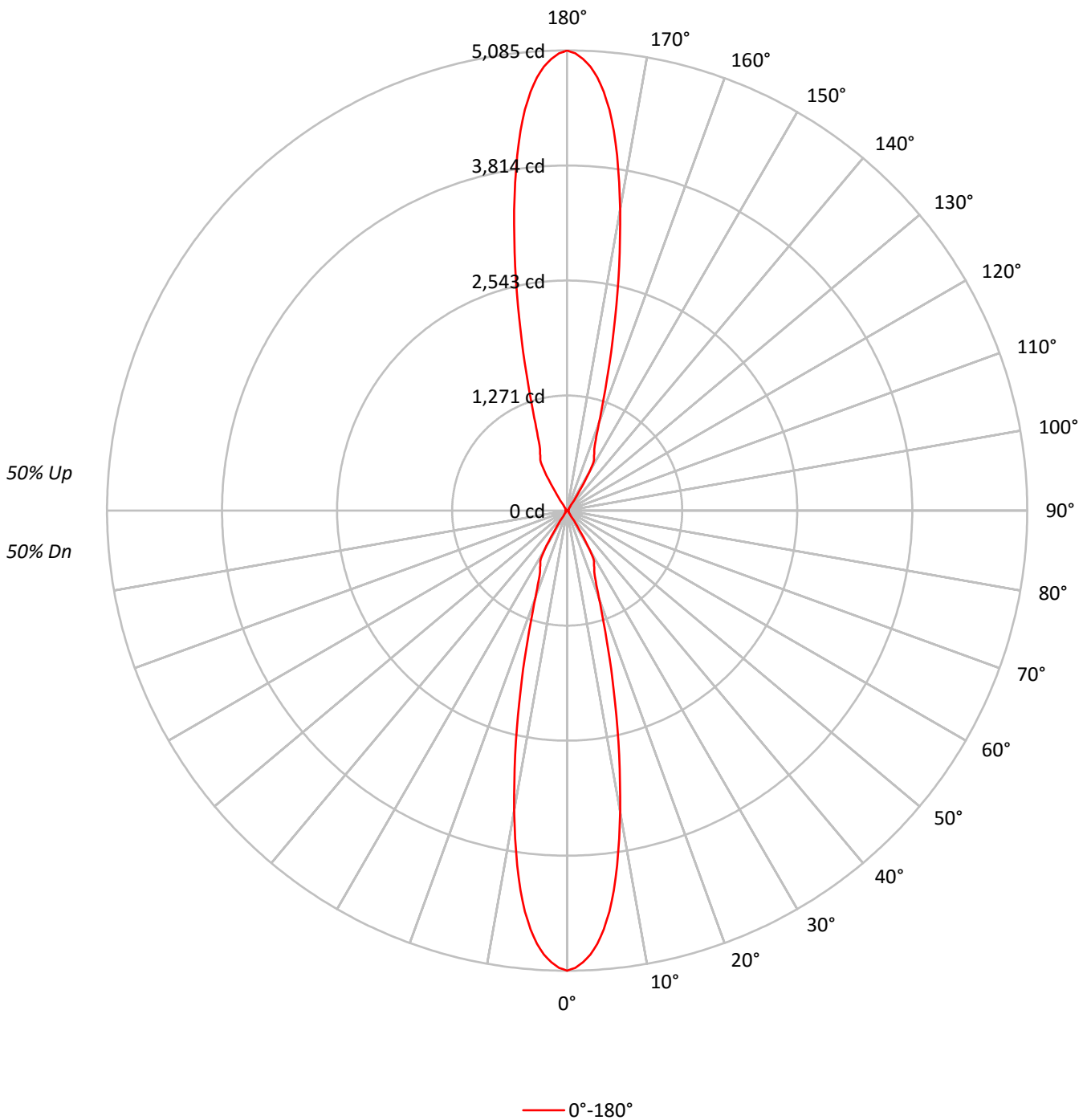
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	627188
5°	575141
10°	422050
15°	247183
20°	134871
25°	96098
30°	71085
35°	10254
40°	5619
45°	3995
50°	4068
55°	4215
60°	4712
65°	5253
70°	6095
75°	7530
80°	8879
85°	8491



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.0	13.9
10°-20°	538.3	18.7
20°-30°	332.3	11.5
30°-40°	92.6	3.2
40°-50°	18.7	0.6
50°-60°	17.8	0.6
60°-70°	18.0	0.6
70°-80°	16.1	0.6
80°-90°	6.7	0.2
90°-100°	6.7	0.2
100°-110°	16.1	0.6
110°-120°	18.0	0.6
120°-130°	17.8	0.6
130°-140°	18.7	0.6
140°-150°	92.6	3.2
150°-160°	332.3	11.5
160°-170°	538.3	18.7
170°-180°	402.0	13.9
0°-30°	1272.6	44.1
0°-40°	1365.2	47.3
0°-60°	1401.8	48.6
0°-90°	1442.6	50.0
90°-120°	40.8	1.4
90°-150°	170.0	5.9
90°-180°	1443.0	50.0
0°-180°	2885.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5085	
5°	4645	402
15°	1936	538
25°	706	332
35°	68	93
45°	23	19
55°	20	18
65°	18	18
75°	16	16
85°	6	6
90°	0	1
95°	6	6
105°	16	16
115°	18	18
125°	20	18
135°	23	19
145°	68	93
155°	706	332
165°	1936	538
175°	4645	402
180°	5085	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5084.8
1°	5053.2
2°	4994.9
3°	4912.1
4°	4798.2
5°	4645.1
6°	4455.5
7°	4230.0
8°	3960.8
9°	3671.5
10°	3369.7
11°	3062.4
12°	2759.0
13°	2463.1
14°	2188.5
15°	1935.7
16°	1703.1
17°	1494.4
18°	1311.4
19°	1155.0
20°	1027.5
21°	922.4
22°	843.4
23°	783.4
24°	738.8
25°	706.1
26°	679.4
27°	656.0
28°	633.6
29°	583.5
30°	499.1
32.5°	241.9
35°	68.1
37.5°	46.9
40°	34.9
42.5°	24.5
45°	22.9
47.5°	21.8
50°	21.2
52.5°	20.2
55°	19.6
57.5°	19.6
60°	19.1
62.5°	19.1
65°	18.0



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	17.4
70°	16.9
72.5°	16.3
75°	15.8
77.5°	14.2
80°	12.5
82.5°	9.8
85°	6.0
87.5°	2.7
90°	0.0
92.5°	2.7
95°	6.0
97.5°	9.8
100°	12.5
102.5°	14.2
105°	15.8
107.5°	16.3
110°	16.9
112.5°	17.4
115°	18.0
117.5°	19.1
120°	19.1
122.5°	19.6
125°	19.6
127.5°	20.2
130°	21.2
132.5°	21.8
135°	22.9
137.5°	24.5
140°	34.9
142.5°	46.9
145°	68.1
147.5°	241.9
150°	499.1
151°	583.5
152°	633.6
153°	656.0
154°	679.4
155°	706.1
156°	738.8
157°	783.4
158°	843.4
159°	922.4
160°	1027.5
161°	1155.0



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CANDELA DISTRIBUTION (continued):

	0°
162°	1311.4
163°	1494.4
164°	1703.1
165°	1935.7
166°	2188.5
167°	2463.1
168°	2759.0
169°	3062.4
170°	3369.7
171°	3671.5
172°	3960.8
173°	4230.0
174°	4455.5
175°	4645.1
176°	4798.2
177°	4912.1
178°	4994.9
179°	5053.2
180°	5084.8

(END OF REPORT)