

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: P221776

Luminaire Tested: **9004-W2-[RW, RI]-LED3090-M-BK-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221776
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]-LED3090-M-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3000K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3049.0 lumens
Efficiency: N/A
Efficacy: 75.8 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

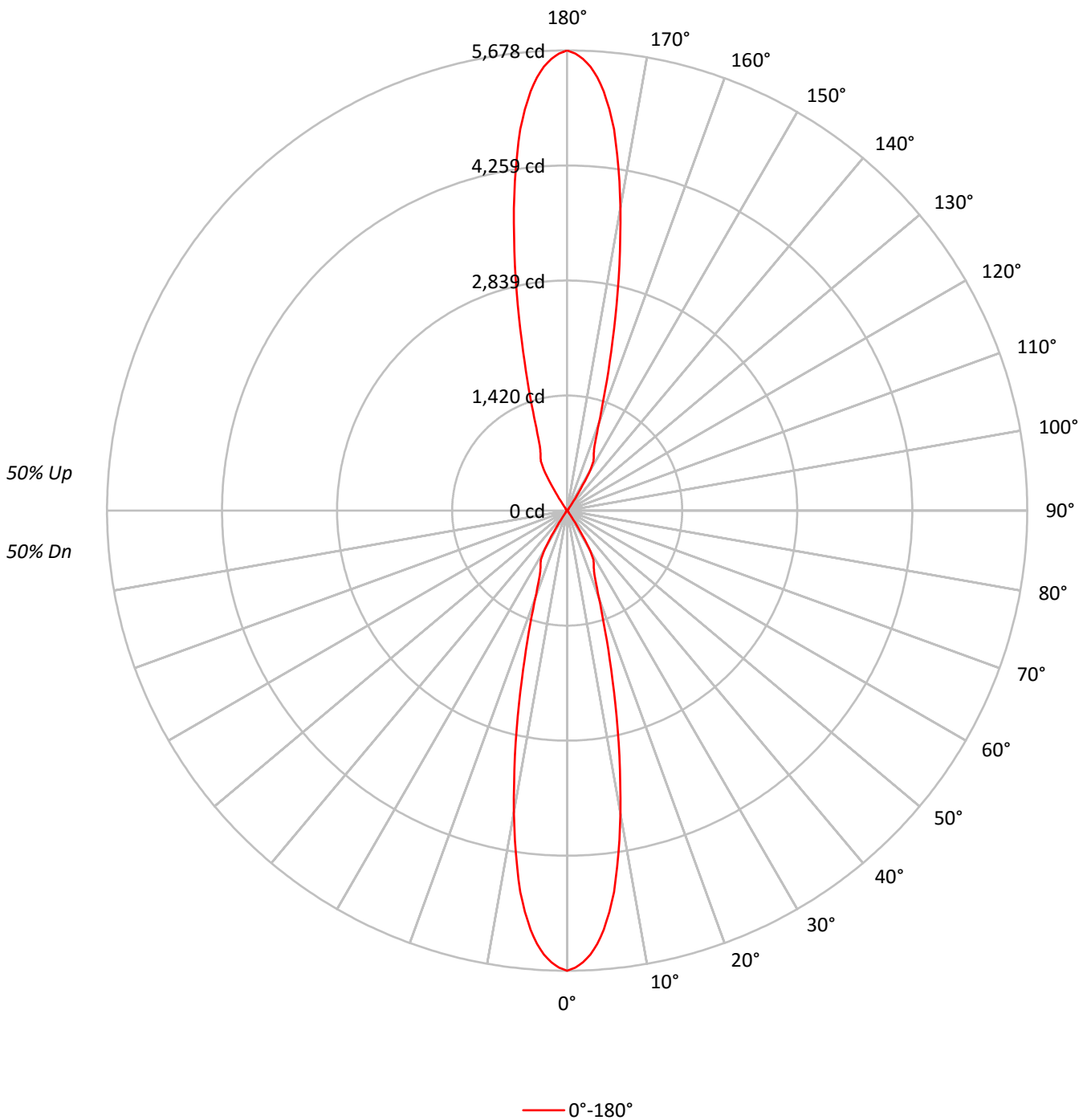
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P221776

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3090-M-BK-L2-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P221776

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3090-M-BK-L2-UNV

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°	700393
5°	642584
10°	474103
15°	276732
20°	150071
25°	106047
30°	76854
35°	9547
40°	3269
45°	1291
50°	825
55°	667
60°	444
65°	350
70°	216
75°	286
80°	426
85°	0



TEST NUMBER: P221776

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3090-M-BK-L2-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.0	14.8
10°-20°	603.5	19.8
20°-30°	366.1	12.0
30°-40°	93.7	3.1
40°-50°	6.7	0.2
50°-60°	2.7	0.1
60°-70°	1.2	0.0
70°-80°	0.6	0.0
80°-90°	0.1	0.0
90°-100°	0.1	0.0
100°-110°	0.6	0.0
110°-120°	1.2	0.0
120°-130°	2.7	0.1
130°-140°	6.7	0.2
140°-150°	93.7	3.1
150°-160°	366.1	12.0
160°-170°	603.5	19.8
170°-180°	450.0	14.8
0°-30°	1419.5	46.6
0°-40°	1513.2	49.6
0°-60°	1522.6	49.9
0°-90°	1524.5	50.0
90°-120°	1.9	0.1
90°-150°	105.0	3.4
90°-180°	1524.0	50.0
0°-180°	3049.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5678	
5°	5190	450
15°	2167	603
25°	779	366
35°	63	94
45°	7	7
55°	3	3
65°	1	1
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	1	1
125°	3	3
135°	7	7
145°	63	94
155°	779	366
165°	2167	603
175°	5190	450
180°	5678	



TEST NUMBER: P221776

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3090-M-BK-L2-UNV

CANDELA DISTRIBUTION (FULL):

0°	
0°	5678.3
1°	5642.0
2°	5577.3
3°	5484.9
4°	5358.6
5°	5189.8
6°	4979.2
7°	4742.0
8°	4438.9
9°	4115.5
10°	3785.3
11°	3437.9
12°	3096.7
13°	2770.2
14°	2456.6
15°	2167.1
16°	1908.4
17°	1674.9
18°	1466.7
19°	1291.1
20°	1143.3
21°	1026.9
22°	934.5
23°	866.1
24°	817.4
25°	779.2
26°	748.4
27°	722.0
28°	690.5
29°	633.3
30°	539.6
32.5°	256.9
35°	63.4
37.5°	34.5
40°	20.3
42.5°	9.2
45°	7.4
47.5°	6.2
50°	4.3
52.5°	3.7
55°	3.1
57.5°	2.5
60°	1.8
62.5°	1.8
65°	1.2



TEST NUMBER: P221776

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3090-M-BK-L2-UNV

CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.6
70°	0.6
72.5°	0.6
75°	0.6
77.5°	0.6
80°	0.6
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°	0.6
102.5°	0.6
105°	0.6
107.5°	0.6
110°	0.6
112.5°	0.6
115°	1.2
117.5°	1.8
120°	1.8
122.5°	2.5
125°	3.1
127.5°	3.7
130°	4.3
132.5°	6.2
135°	7.4
137.5°	9.2
140°	20.3
142.5°	34.5
145°	63.4
147.5°	256.9
150°	539.6
151°	633.3
152°	690.5
153°	722.0
154°	748.4
155°	779.2
156°	817.4
157°	866.1
158°	934.5
159°	1026.9
160°	1143.3
161°	1291.1



TEST NUMBER: P221776

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3090-M-BK-L2-UNV

CANDELA DISTRIBUTION (continued):

	0°
162°	1466.7
163°	1674.9
164°	1908.4
165°	2167.1
166°	2456.6
167°	2770.2
168°	3096.7
169°	3437.9
170°	3785.3
171°	4115.5
172°	4438.9
173°	4742.0
174°	4979.2
175°	5189.8
176°	5358.6
177°	5484.9
178°	5577.3
179°	5642.0
180°	5678.3

(END OF REPORT)