

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: P221731

Luminaire Tested: **9004-W2-[RW, RI]-LED2790-M-WT-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221731
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]-LED2790-M-WT-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 2700K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3083.9 lumens
Efficiency: N/A
Efficacy: 76.7 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

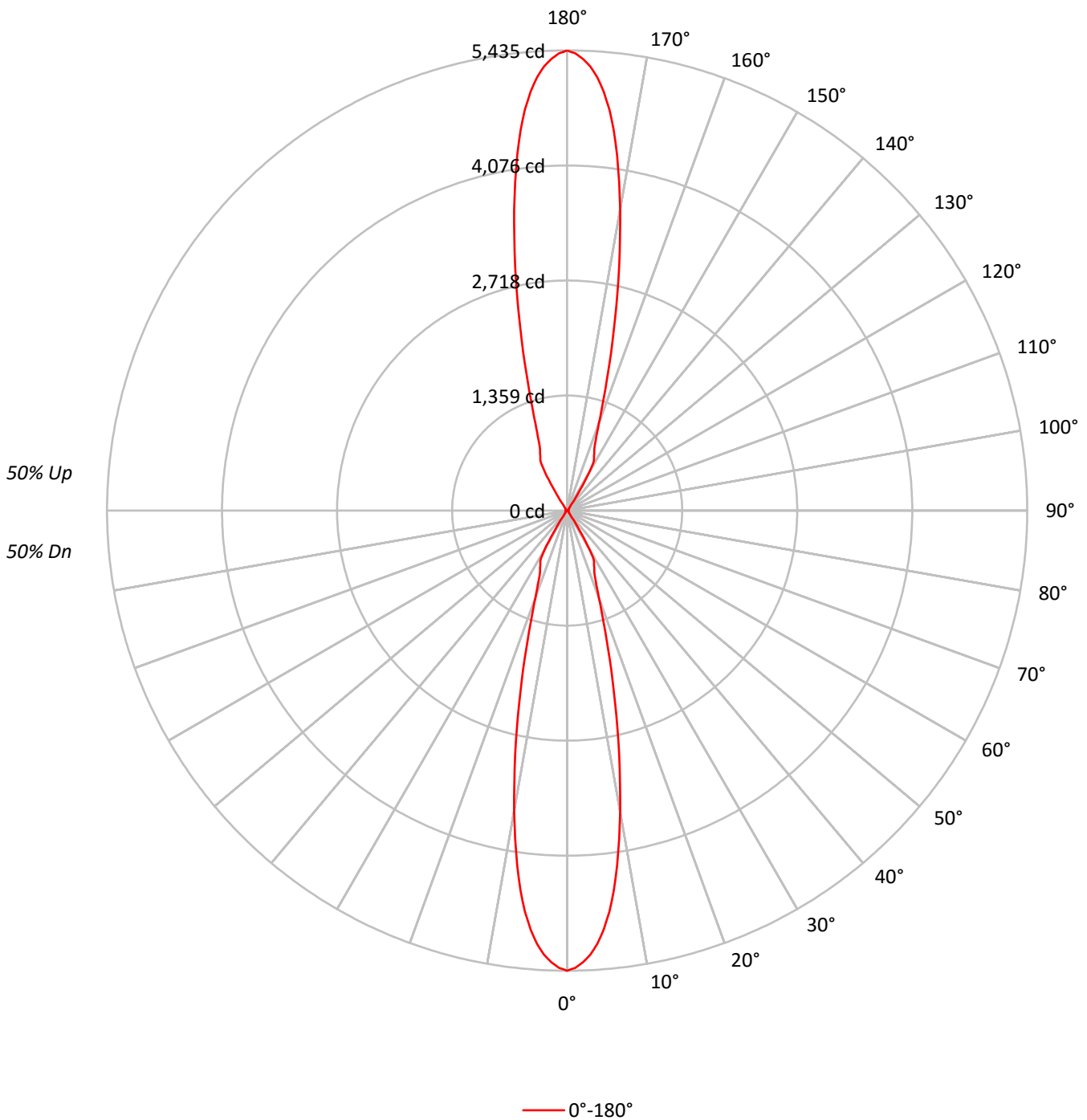
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	670371
5°	614738
10°	451107
15°	264205
20°	144165
25°	102712
30°	75971
35°	10962
40°	6006
45°	4274
50°	4356
55°	4516
60°	5033
65°	5604
70°	6528
75°	8054
80°	9518
85°	9057



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.7	13.9
10°-20°	575.3	18.7
20°-30°	355.2	11.5
30°-40°	99.0	3.2
40°-50°	20.0	0.6
50°-60°	19.1	0.6
60°-70°	19.2	0.6
70°-80°	17.2	0.6
80°-90°	7.2	0.2
90°-100°	7.2	0.2
100°-110°	17.2	0.6
110°-120°	19.2	0.6
120°-130°	19.1	0.6
130°-140°	20.0	0.6
140°-150°	99.0	3.2
150°-160°	355.2	11.5
160°-170°	575.3	18.7
170°-180°	429.7	13.9
0°-30°	1360.2	44.1
0°-40°	1459.2	47.3
0°-60°	1498.3	48.6
0°-90°	1541.9	50.0
90°-120°	43.7	1.4
90°-150°	181.7	5.9
90°-180°	1542.0	50.0
0°-180°	3083.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5435	
5°	4965	430
15°	2069	575
25°	755	355
35°	73	99
45°	24	20
55°	21	19
65°	19	19
75°	17	17
85°	6	7
90°	0	1
95°	6	7
105°	17	17
115°	19	19
125°	21	19
135°	24	20
145°	73	99
155°	755	355
165°	2069	575
175°	4965	430
180°	5435	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5434.9
1°	5401.1
2°	5338.8
3°	5250.3
4°	5128.6
5°	4964.9
6°	4762.3
7°	4521.2
8°	4233.5
9°	3924.3
10°	3601.7
11°	3273.3
12°	2948.9
13°	2632.7
14°	2339.2
15°	2069.0
16°	1820.4
17°	1597.3
18°	1401.7
19°	1234.5
20°	1098.3
21°	985.9
22°	901.4
23°	837.4
24°	789.6
25°	754.7
26°	726.2
27°	701.1
28°	677.2
29°	623.7
30°	533.4
32.5°	258.6
35°	72.8
37.5°	50.1
40°	37.3
42.5°	26.2
45°	24.5
47.5°	23.3
50°	22.7
52.5°	21.5
55°	21.0
57.5°	21.0
60°	20.4
62.5°	20.4
65°	19.2



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	18.6
70°	18.1
72.5°	17.5
75°	16.9
77.5°	15.1
80°	13.4
82.5°	10.5
85°	6.4
87.5°	2.9
90°	0.0
92.5°	2.9
95°	6.4
97.5°	10.5
100°	13.4
102.5°	15.1
105°	16.9
107.5°	17.5
110°	18.1
112.5°	18.6
115°	19.2
117.5°	20.4
120°	20.4
122.5°	21.0
125°	21.0
127.5°	21.5
130°	22.7
132.5°	23.3
135°	24.5
137.5°	26.2
140°	37.3
142.5°	50.1
145°	72.8
147.5°	258.6
150°	533.4
151°	623.7
152°	677.2
153°	701.1
154°	726.2
155°	754.7
156°	789.6
157°	837.4
158°	901.4
159°	985.9
160°	1098.3
161°	1234.5



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CANDELA DISTRIBUTION (continued):

	0°
162°	1401.7
163°	1597.3
164°	1820.4
165°	2069.0
166°	2339.2
167°	2632.7
168°	2948.9
169°	3273.3
170°	3601.7
171°	3924.3
172°	4233.5
173°	4521.2
174°	4762.3
175°	4964.9
176°	5128.6
177°	5250.3
178°	5338.8
179°	5401.1
180°	5434.9

(END OF REPORT)