

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: P221221

Luminaire Tested: **9002-W2-[RW, RI]-LED2790-S-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221221
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29413)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9002-W2-[RW, RI]-LED2790-S-BK-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, BLACK HOUSING.
Light Source: (1) 2700K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 716.3 lumens
Efficiency: N/A
Efficacy: 35.8 lumens/watt
Spacing Criteria (0/90/45): 0.25 / 0.25 / 0.25
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

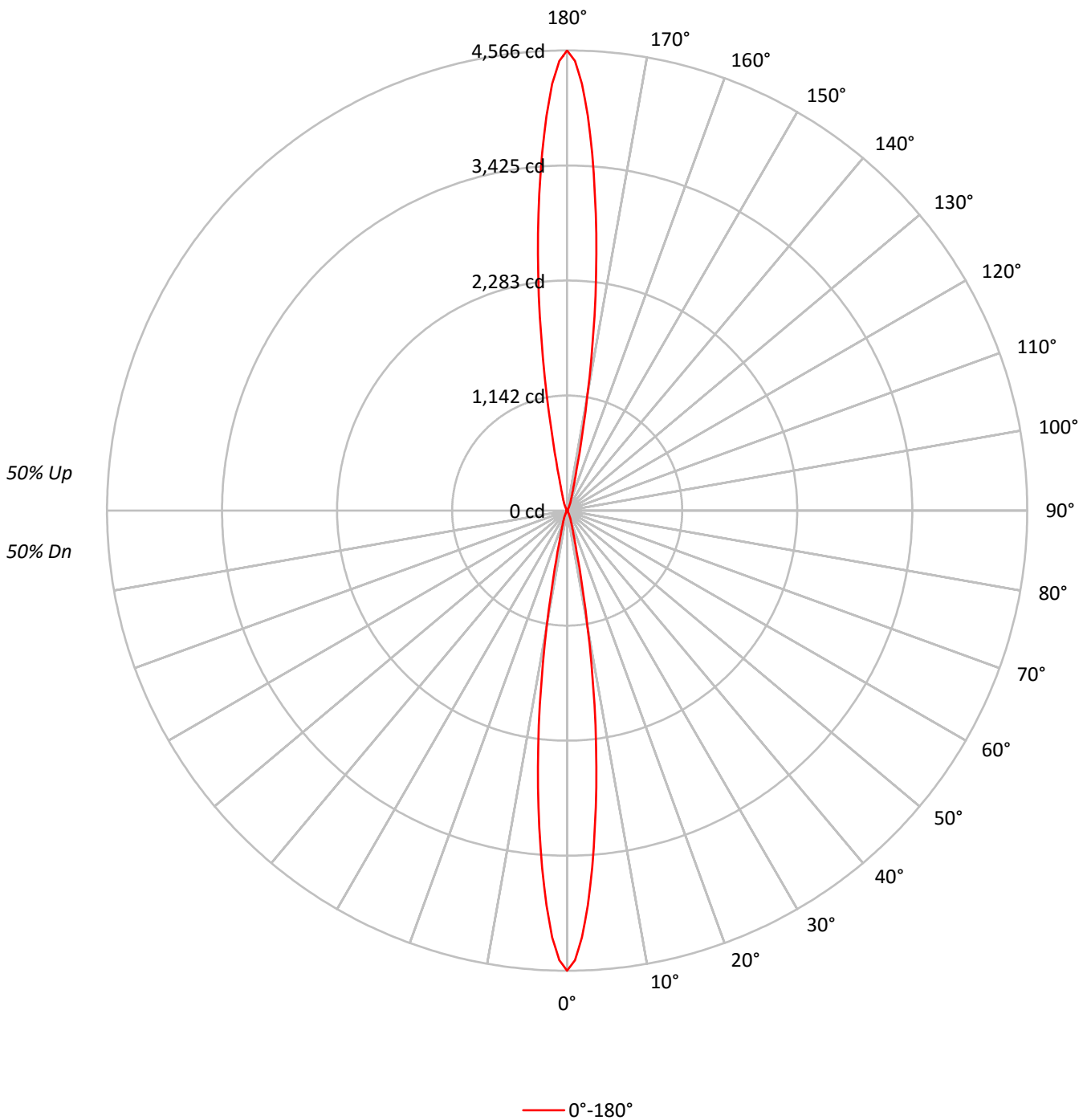
Input Watts (W): 20
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	96	93	94	91	89	87	78	77	76	66	65	65	55	55	54	49				
2	96	91	87	84	89	85	82	79	74	72	70	63	62	61	54	53	53	48				
3	91	85	80	76	85	80	76	73	70	67	65	61	59	58	53	52	51	48				
4	87	80	75	71	81	75	71	68	67	64	62	59	57	56	52	51	50	47				
5	83	75	70	66	78	71	67	64	64	61	59	57	55	54	51	50	49	46				
6	79	72	66	63	75	68	64	60	62	59	56	56	54	52	50	49	48	46				
7	76	68	63	59	72	65	61	58	60	56	54	54	52	50	49	48	47	45				
8	74	66	60	57	70	63	58	55	58	55	52	53	51	49	48	47	46	44				
9	71	63	58	55	68	61	56	53	56	53	51	52	50	48	48	46	45	44				
10	69	61	56	53	66	59	55	52	55	52	49	51	49	47	47	46	45	43				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2252722
5°	1564292
10°	580949
15°	124580
20°	55655
25°	27219
30°	9058
35°	4096
40°	2447
45°	1605
50°	1151
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.5	33.0
10°-20°	90.9	12.7
20°-30°	23.9	3.3
30°-40°	4.9	0.7
40°-50°	1.7	0.2
50°-60°	0.3	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.5	0.1
130°-140°	1.7	0.2
140°-150°	4.9	0.7
150°-160°	23.9	3.3
160°-170°	90.9	12.7
170°-180°	236.5	33.0
0°-30°	351.3	49.0
0°-40°	356.1	49.7
0°-60°	358.1	50.0
0°-90°	358.1	50.0
90°-120°	0.0	0.0
90°-150°	7.0	1.0
90°-180°	358.0	50.0
0°-180°	716.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4566	
5°	3158	236
15°	244	91
25°	50	24
35°	7	5
45°	2	2
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	0	1
135°	2	2
145°	7	5
155°	50	24
165°	244	91
175°	3158	236
180°	4566	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4565.9
1°	4461.3
2°	4237.1
3°	3921.3
4°	3553.2
5°	3158.5
6°	2763.9
7°	2357.9
8°	1942.8
9°	1536.1
10°	1159.6
11°	837.7
12°	590.0
13°	419.6
14°	312.1
15°	243.9
17.5°	150.0
20°	106.0
22.5°	77.3
25°	50.0
27.5°	28.8
30°	15.9
32.5°	9.8
35°	6.8
37.5°	5.3
40°	3.8
42.5°	2.3
45°	2.3
47.5°	1.5
50°	1.5
52.5°	0.8
55°	0.0
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0



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CANDELA DISTRIBUTION (continued):

	0°
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.0
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.8
130°	1.5
132.5°	1.5
135°	2.3
137.5°	2.3
140°	3.8
142.5°	5.3
145°	6.8
147.5°	9.8
150°	15.9
152.5°	28.8
155°	50.0
157.5°	77.3
160°	106.0
162.5°	150.0
165°	243.9
166°	312.1
167°	419.6
168°	590.0
169°	837.7
170°	1159.6
171°	1536.1
172°	1942.8
173°	2357.9
174°	2763.9
175°	3158.5
176°	3553.2
177°	3921.3
178°	4237.1
179°	4461.3



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CANDELA DISTRIBUTION (continued):

180° $\overbrace{\hspace{1.5cm}}^{0^\circ}$
4565.9

(END OF REPORT)