

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: P221745

Luminaire Tested: **9004-W2-[RW, RI]-LED2797-F-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221745
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29493)
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]-LED2797-F-BK-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 2700K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1468.4 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.56
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

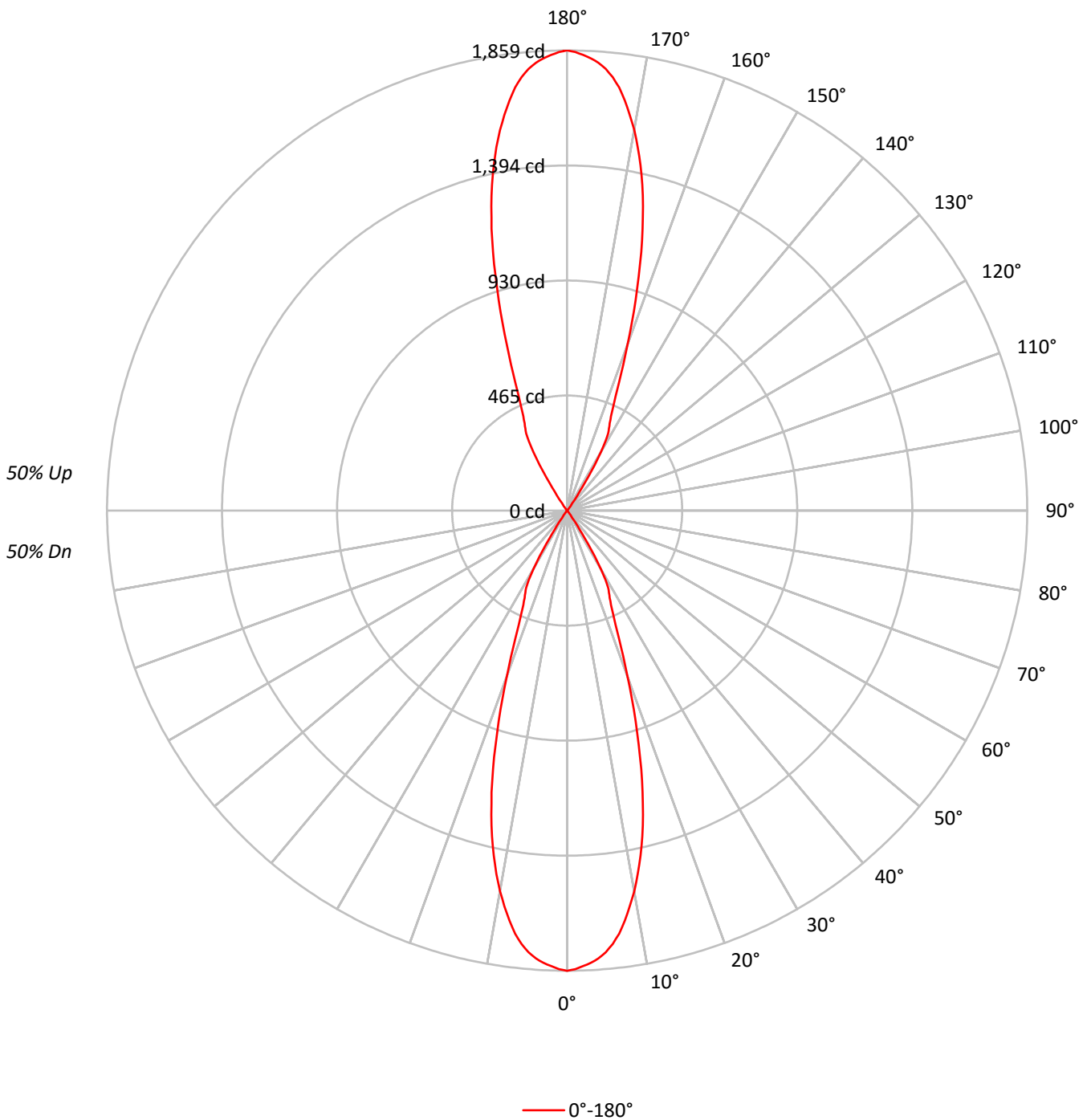
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	97	95	92	93	90	88	86	77	76	74	65	64	63	54	53	53	48				
2	95	89	85	81	88	83	79	76	72	69	67	61	60	58	52	51	50	46				
3	89	82	77	73	83	77	72	69	67	64	61	58	56	54	50	49	47	44				
4	84	76	70	66	78	71	66	63	63	59	57	55	53	51	48	46	45	42				
5	79	71	65	60	74	67	61	58	59	55	53	52	50	48	46	44	43	40				
6	75	66	60	55	70	62	57	53	56	52	49	50	47	45	44	42	41	38				
7	71	62	56	52	67	59	53	50	53	49	46	48	45	43	42	41	39	37				
8	68	58	52	48	64	55	50	47	50	46	44	45	43	40	41	39	37	35				
9	64	55	49	45	61	52	47	44	48	44	41	43	41	39	39	37	36	34				
10	61	52	46	43	58	50	45	41	46	42	39	42	39	37	38	36	35	33				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	229349
5°	221756
10°	195538
15°	150542
20°	93393
25°	57133
30°	38883
35°	5150
40°	1465
45°	349
50°	288
55°	194
60°	148
65°	175
70°	108
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.6	11.1
10°-20°	316.3	21.5
20°-30°	202.8	13.8
30°-40°	47.8	3.3
40°-50°	2.3	0.2
50°-60°	0.9	0.1
60°-70°	0.5	0.0
70°-80°	0.1	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.2	0.0
110°-120°	0.5	0.0
120°-130°	0.9	0.1
130°-140°	2.3	0.2
140°-150°	47.8	3.3
150°-160°	202.8	13.8
160°-170°	316.3	21.5
170°-180°	163.6	11.1
0°-30°	682.6	46.5
0°-40°	730.4	49.7
0°-60°	733.6	50.0
0°-90°	734.2	50.0
90°-120°	0.7	0.0
90°-150°	51.6	3.5
90°-180°	734.0	50.0
0°-180°	1468.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1859	
5°	1791	164
15°	1179	316
25°	420	203
35°	34	48
45°	2	2
55°	1	1
65°	1	0
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	0
125°	1	1
135°	2	2
145°	34	48
155°	420	203
165°	1179	316
175°	1791	164
180°	1859	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1859.4
1°	1852.7
2°	1841.9
3°	1829.6
4°	1813.5
5°	1791.0
6°	1760.9
7°	1722.6
8°	1672.9
9°	1618.8
10°	1561.2
11°	1496.1
12°	1426.2
13°	1350.5
14°	1266.6
15°	1178.9
16°	1085.9
17°	989.8
18°	893.9
19°	800.9
20°	711.5
21°	632.0
22°	560.9
23°	501.3
24°	456.0
25°	419.8
26°	392.6
27°	371.5
28°	352.8
29°	321.0
30°	273.0
32.5°	130.4
35°	34.2
37.5°	18.1
40°	9.1
42.5°	2.9
45°	2.0
47.5°	1.8
50°	1.5
52.5°	1.2
55°	0.9
57.5°	0.9
60°	0.6
62.5°	0.6
65°	0.6



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.3
70°	0.3
72.5°	0.3
75°	0.0
77.5°	0.0
80°	0.0
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°	0.0
102.5°	0.0
105°	0.0
107.5°	0.3
110°	0.3
112.5°	0.3
115°	0.6
117.5°	0.6
120°	0.6
122.5°	0.9
125°	0.9
127.5°	1.2
130°	1.5
132.5°	1.8
135°	2.0
137.5°	2.9
140°	9.1
142.5°	18.1
145°	34.2
147.5°	130.4
150°	273.0
151°	321.0
152°	352.8
153°	371.5
154°	392.6
155°	419.8
156°	456.0
157°	501.3
158°	560.9
159°	632.0
160°	711.5
161°	800.9



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CATALOG NUMBER: 9004-W2-[RW, RI]-LED2797-F-BK-L1-UNV

CANDELA DISTRIBUTION (continued):

	0°
162°	893.9
163°	989.8
164°	1085.9
165°	1178.9
166°	1266.6
167°	1350.5
168°	1426.2
169°	1496.1
170°	1561.2
171°	1618.8
172°	1672.9
173°	1722.6
174°	1760.9
175°	1791.0
176°	1813.5
177°	1829.6
178°	1841.9
179°	1852.7
180°	1859.4

(END OF REPORT)