

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: P221763

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221763
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29494)
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-W-BK-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 2700K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1395.5 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.83
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

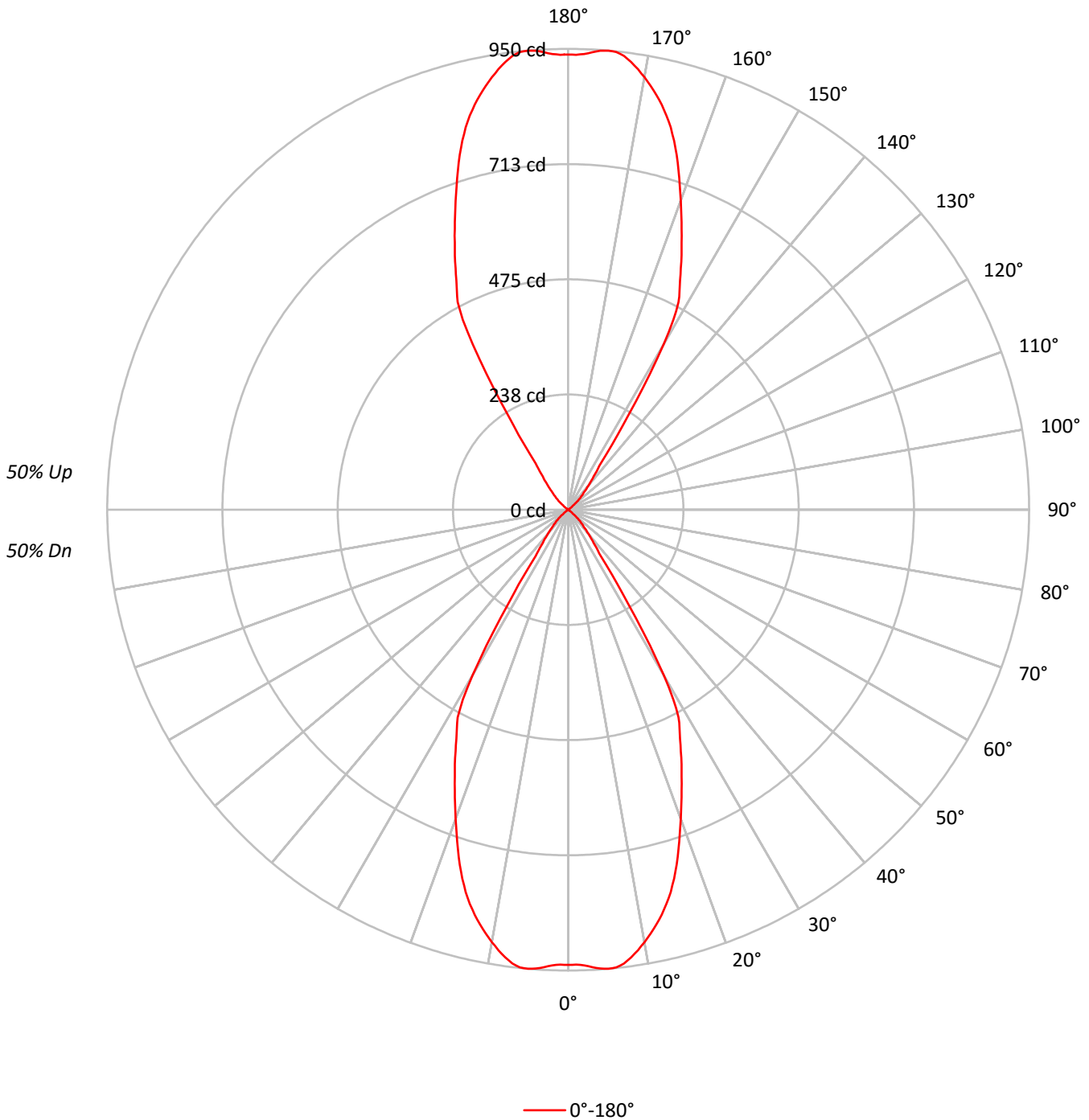
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	91	93	90	87	85	77	75	74		65	64	63		53	53	52	47
2	94	88	83	79	87	82	78	75	71	68	66		60	59	57		51	50	49	44
3	88	80	75	70	81	75	70	67	65	62	59		56	54	52		48	47	45	42
4	82	74	68	63	76	69	64	60	61	57	54		53	50	48		46	44	42	39
5	77	68	62	57	72	64	58	54	57	52	49		50	47	44		43	41	40	37
6	72	63	56	52	68	59	54	50	53	49	45		47	44	41		41	39	37	35
7	68	58	52	47	64	55	50	46	49	45	42		44	41	38		39	37	35	33
8	64	54	48	44	60	52	46	42	46	42	39		41	38	36		37	35	33	31
9	61	51	45	40	57	48	43	39	44	39	36		39	36	34		35	33	31	29
10	58	48	42	38	54	45	40	36	41	37	34		37	34	32		33	31	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	115735
5°	117626
10°	113387
15°	104213
20°	88982
25°	74758
30°	55960
35°	17557
40°	10402
45°	6315
50°	2629
55°	430
60°	296
65°	175
70°	108
75°	143
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.3	6.4
10°-20°	225.1	16.1
20°-30°	250.7	18.0
30°-40°	100.0	7.2
40°-50°	28.6	2.0
50°-60°	3.2	0.2
60°-70°	0.6	0.0
70°-80°	0.3	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.3	0.0
110°-120°	0.6	0.0
120°-130°	3.2	0.2
130°-140°	28.6	2.0
140°-150°	100.0	7.2
150°-160°	250.7	18.0
160°-170°	225.1	16.1
170°-180°	89.3	6.4
0°-30°	565.1	40.5
0°-40°	665.1	47.7
0°-60°	696.8	49.9
0°-90°	697.7	50.0
90°-120°	0.9	0.1
90°-150°	132.7	9.5
90°-180°	698.0	50.0
0°-180°	1395.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	938	
5°	950	89
15°	816	225
25°	549	251
35°	117	100
45°	36	29
55°	2	3
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	1	1
125°	2	3
135°	36	29
145°	117	100
155°	549	251
165°	816	225
175°	950	89
180°	938	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	938.3
1°	938.0
2°	939.8
3°	944.2
4°	948.3
5°	950.0
6°	948.9
7°	942.7
8°	932.2
9°	919.3
10°	905.3
11°	890.1
12°	874.3
13°	856.8
14°	837.5
15°	816.1
16°	791.3
17°	764.7
18°	735.8
19°	706.2
20°	677.9
21°	650.4
22°	624.1
23°	598.4
24°	574.1
25°	549.3
26°	525.9
27°	505.7
28°	484.7
29°	447.5
30°	392.9
32.5°	229.8
35°	116.6
37.5°	86.2
40°	64.6
42.5°	47.9
45°	36.2
47.5°	26.9
50°	13.7
52.5°	3.5
55°	2.0
57.5°	1.5
60°	1.2
62.5°	0.9
65°	0.6



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.3
70°	0.3
72.5°	0.3
75°	0.3
77.5°	0.3
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°	0.3
105°	0.3
107.5°	0.3
110°	0.3
112.5°	0.3
115°	0.6
117.5°	0.9
120°	1.2
122.5°	1.5
125°	2.0
127.5°	3.5
130°	13.7
132.5°	26.9
135°	36.2
137.5°	47.9
140°	64.6
142.5°	86.2
145°	116.6
147.5°	229.8
150°	392.9
151°	447.5
152°	484.7
153°	505.7
154°	525.9
155°	549.3
156°	574.1
157°	598.4
158°	624.1
159°	650.4
160°	677.9
161°	706.2



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CANDELA DISTRIBUTION (continued):

	0°
162°	735.8
163°	764.7
164°	791.3
165°	816.1
166°	837.5
167°	856.8
168°	874.3
169°	890.1
170°	905.3
171°	919.3
172°	932.2
173°	942.7
174°	948.9
175°	950.0
176°	948.3
177°	944.2
178°	939.8
179°	938.0
180°	938.3

(END OF REPORT)