

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: P221869

Luminaire Tested: **9004-W2-[RW, RI]-LED4080-F-WT-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221869
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29489)
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]-LED4080-F-WT-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 4000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4166.5 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.57
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

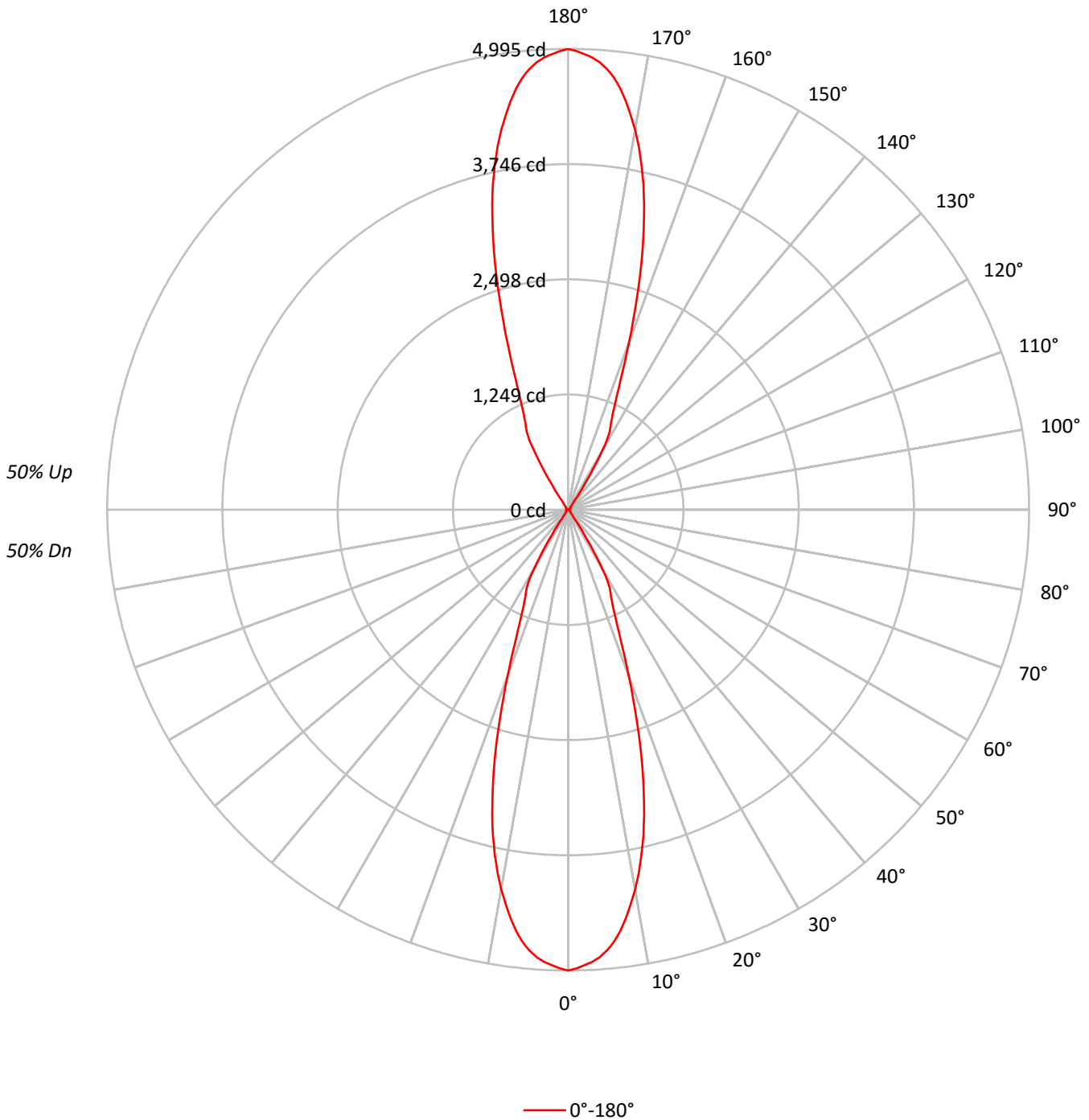
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	93	90	87	85	77	75	74	65	64	63	53	53	52	47
2	94	88	84	80	87	82	78	75	71	68	66	61	59	57	51	50	49	45
3	88	81	76	71	82	76	71	67	66	63	60	57	55	53	49	47	46	42
4	83	75	69	64	77	70	65	61	62	58	55	54	51	49	47	45	44	40
5	78	69	63	59	73	65	60	56	58	54	51	51	48	46	45	43	41	39
6	74	65	58	54	69	61	56	52	55	51	48	49	46	43	43	41	39	37
7	70	60	54	50	66	57	52	48	52	48	45	46	43	41	41	39	38	35
8	66	57	51	47	62	54	49	45	49	45	42	44	41	39	39	37	36	34
9	63	54	48	44	60	51	46	42	46	42	40	42	39	37	38	36	34	33
10	60	51	45	41	57	48	43	40	44	40	38	40	37	35	37	34	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	616087
5°	594073
10°	523113
15°	403918
20°	252180
25°	155259
30°	106422
35°	16729
40°	7584
45°	5111
50°	5335
55°	5806
60°	6463
65°	7209
70°	8367
75°	10294
80°	12075
85°	12029



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.0	10.5
10°-20°	849.4	20.4
20°-30°	550.0	13.2
30°-40°	141.5	3.4
40°-50°	24.2	0.6
50°-60°	24.4	0.6
60°-70°	24.5	0.6
70°-80°	22.0	0.5
80°-90°	9.3	0.2
90°-100°	9.3	0.2
100°-110°	22.0	0.5
110°-120°	24.5	0.6
120°-130°	24.4	0.6
130°-140°	24.2	0.6
140°-150°	141.5	3.4
150°-160°	550.0	13.2
160°-170°	849.4	20.4
170°-180°	438.0	10.5
0°-30°	1837.4	44.1
0°-40°	1978.9	47.5
0°-60°	2027.5	48.7
0°-90°	2083.3	50.0
90°-120°	55.8	1.3
90°-150°	245.8	5.9
90°-180°	2083.0	50.0
0°-180°	4166.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4995	
5°	4798	438
15°	3163	849
25°	1141	550
35°	111	141
45°	29	24
55°	27	24
65°	25	24
75°	22	22
85°	8	9
90°	0	1
95°	8	9
105°	22	22
115°	25	24
125°	27	24
135°	29	24
145°	111	141
155°	1141	550
165°	3163	849
175°	4798	438
180°	4995	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4994.8
1°	4972.4
2°	4943.1
3°	4908.3
4°	4863.6
5°	4798.0
6°	4714.6
7°	4605.8
8°	4475.3
9°	4330.2
10°	4176.6
11°	4008.3
12°	3823.1
13°	3622.4
14°	3402.4
15°	3163.1
16°	2916.1
17°	2662.2
18°	2407.5
19°	2156.6
20°	1921.2
21°	1705.8
22°	1518.3
23°	1360.0
24°	1235.8
25°	1140.8
26°	1066.0
27°	1008.1
28°	959.4
29°	874.5
30°	747.2
32.5°	373.6
35°	111.1
37.5°	71.0
40°	47.1
42.5°	30.1
45°	29.3
47.5°	28.6
50°	27.8
52.5°	27.8
55°	27.0
57.5°	27.0
60°	26.2
62.5°	25.5
65°	24.7



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	23.9
70°	23.2
72.5°	22.4
75°	21.6
77.5°	19.3
80°	17.0
82.5°	13.1
85°	8.5
87.5°	3.9
90°	0.0
92.5°	3.9
95°	8.5
97.5°	13.1
100°	17.0
102.5°	19.3
105°	21.6
107.5°	22.4
110°	23.2
112.5°	23.9
115°	24.7
117.5°	25.5
120°	26.2
122.5°	27.0
125°	27.0
127.5°	27.8
130°	27.8
132.5°	28.6
135°	29.3
137.5°	30.1
140°	47.1
142.5°	71.0
145°	111.1
147.5°	373.6
150°	747.2
151°	874.5
152°	959.4
153°	1008.1
154°	1066.0
155°	1140.8
156°	1235.8
157°	1360.0
158°	1518.3
159°	1705.8
160°	1921.2
161°	2156.6



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CANDELA DISTRIBUTION (continued):

	0°
162°	2407.5
163°	2662.2
164°	2916.1
165°	3163.1
166°	3402.4
167°	3622.4
168°	3823.1
169°	4008.3
170°	4176.6
171°	4330.2
172°	4475.3
173°	4605.8
174°	4714.6
175°	4798.0
176°	4863.6
177°	4908.3
178°	4943.1
179°	4972.4
180°	4994.8

(END OF REPORT)