

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: P222106

Luminaire Tested: **9004-W2-FL-LED4080-F-BK-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222106
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29498)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-FL-LED4080-F-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 4000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

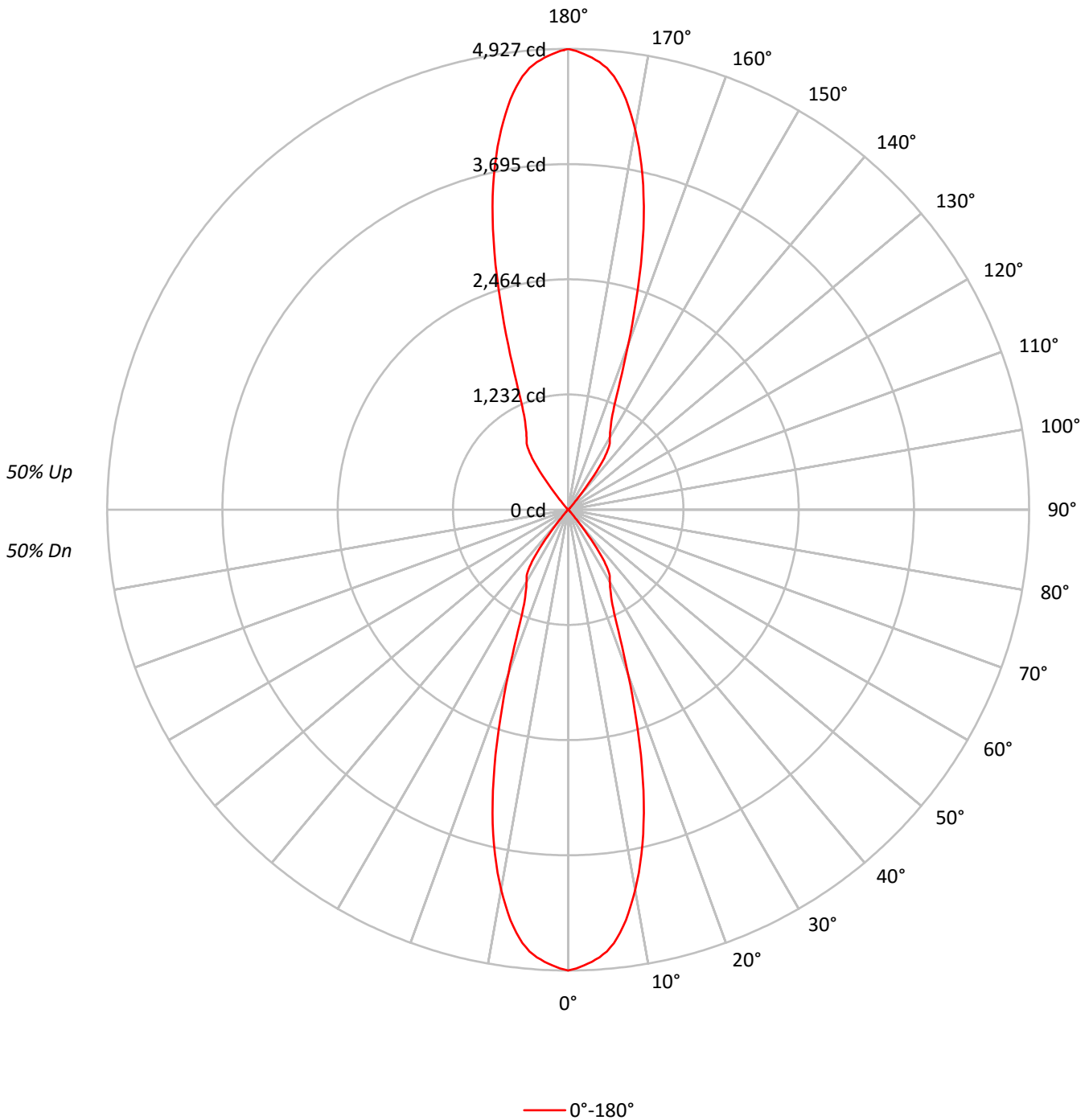
Lumens per Lamp: N/A
Luminaire Lumens: 4431.8 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.56
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

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	86	77	75	74		65	64	63		54	53	53	48
2	94	89	84	80	87	83	79	76	71	69	66		61	59	58		51	50	49	45
3	88	81	76	71	82	76	71	68	66	63	60		57	55	53		49	48	46	43
4	83	75	69	64	77	70	65	61	62	58	55		54	51	49		47	45	44	40
5	78	69	63	58	73	65	60	56	58	54	51		51	48	46		45	43	41	38
6	74	64	58	54	69	61	55	52	54	50	47		48	45	43		43	41	39	37
7	70	60	54	50	65	57	52	48	51	47	44		46	43	41		41	39	37	35
8	66	56	50	46	62	54	48	44	48	44	41		44	41	38		39	37	35	33
9	63	53	47	43	59	50	45	42	46	42	39		41	38	36		37	35	34	32
10	60	50	44	40	56	48	43	39	44	39	37		40	37	34		36	34	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	607712
5°	586904
10°	516737
15°	396920
20°	245486
25°	152115
30°	126760
35°	101459
40°	22124
45°	4710
50°	883
55°	495
60°	370
65°	233
70°	289
75°	381
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.9	9.8
10°-20°	833.6	18.8
20°-30°	547.4	12.4
30°-40°	369.1	8.3
40°-50°	29.1	0.7
50°-60°	2.0	0.0
60°-70°	1.0	0.0
70°-80°	0.7	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.7	0.0
110°-120°	1.0	0.0
120°-130°	2.0	0.0
130°-140°	29.1	0.7
140°-150°	369.1	8.3
150°-160°	547.4	12.4
160°-170°	833.6	18.8
170°-180°	432.9	9.8
0°-30°	1813.9	40.9
0°-40°	2183.0	49.3
0°-60°	2214.1	50.0
0°-90°	2215.9	50.0
90°-120°	1.8	0.0
90°-150°	402.1	9.1
90°-180°	2216.0	50.0
0°-180°	4431.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4927	
5°	4740	433
15°	3108	834
25°	1118	547
35°	674	369
45°	27	29
55°	2	2
65°	1	1
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	1	1
125°	2	2
135°	27	29
145°	674	369
155°	1118	547
165°	3108	834
175°	4740	433
180°	4927	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4926.9
1°	4905.2
2°	4873.6
3°	4838.9
4°	4798.0
5°	4740.1
6°	4660.6
7°	4557.1
8°	4429.8
9°	4282.3
10°	4125.7
11°	3953.5
12°	3766.0
13°	3561.4
14°	3343.8
15°	3108.3
16°	2860.6
17°	2604.3
18°	2348.0
19°	2107.2
20°	1870.2
21°	1664.9
22°	1480.5
23°	1327.6
24°	1209.5
25°	1117.7
26°	1051.3
27°	1000.3
28°	957.1
29°	921.6
30°	890.0
32.5°	823.6
35°	673.8
37.5°	400.6
40°	137.4
42.5°	40.9
45°	27.0
47.5°	17.0
50°	4.6
52.5°	2.3
55°	2.3
57.5°	1.5
60°	1.5
62.5°	1.5
65°	0.8



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.8
70°	0.8
72.5°	0.8
75°	0.8
77.5°	0.8
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°	0.8
105°	0.8
107.5°	0.8
110°	0.8
112.5°	0.8
115°	0.8
117.5°	1.5
120°	1.5
122.5°	1.5
125°	2.3
127.5°	2.3
130°	4.6
132.5°	17.0
135°	27.0
137.5°	40.9
140°	137.4
142.5°	400.6
145°	673.8
147.5°	823.6
150°	890.0
151°	921.6
152°	957.1
153°	1000.3
154°	1051.3
155°	1117.7
156°	1209.5
157°	1327.6
158°	1480.5
159°	1664.9
160°	1870.2
161°	2107.2



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CANDELA DISTRIBUTION (continued):

	0°
162°	2348.0
163°	2604.3
164°	2860.6
165°	3108.3
166°	3343.8
167°	3561.4
168°	3766.0
169°	3953.5
170°	4125.7
171°	4282.3
172°	4429.8
173°	4557.1
174°	4660.6
175°	4740.1
176°	4798.0
177°	4838.9
178°	4873.6
179°	4905.2
180°	4926.9

(END OF REPORT)