

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: P222057

Luminaire Tested: **9004-W2-FL-LED3590-F-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222057
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-LED3590-F-BK-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

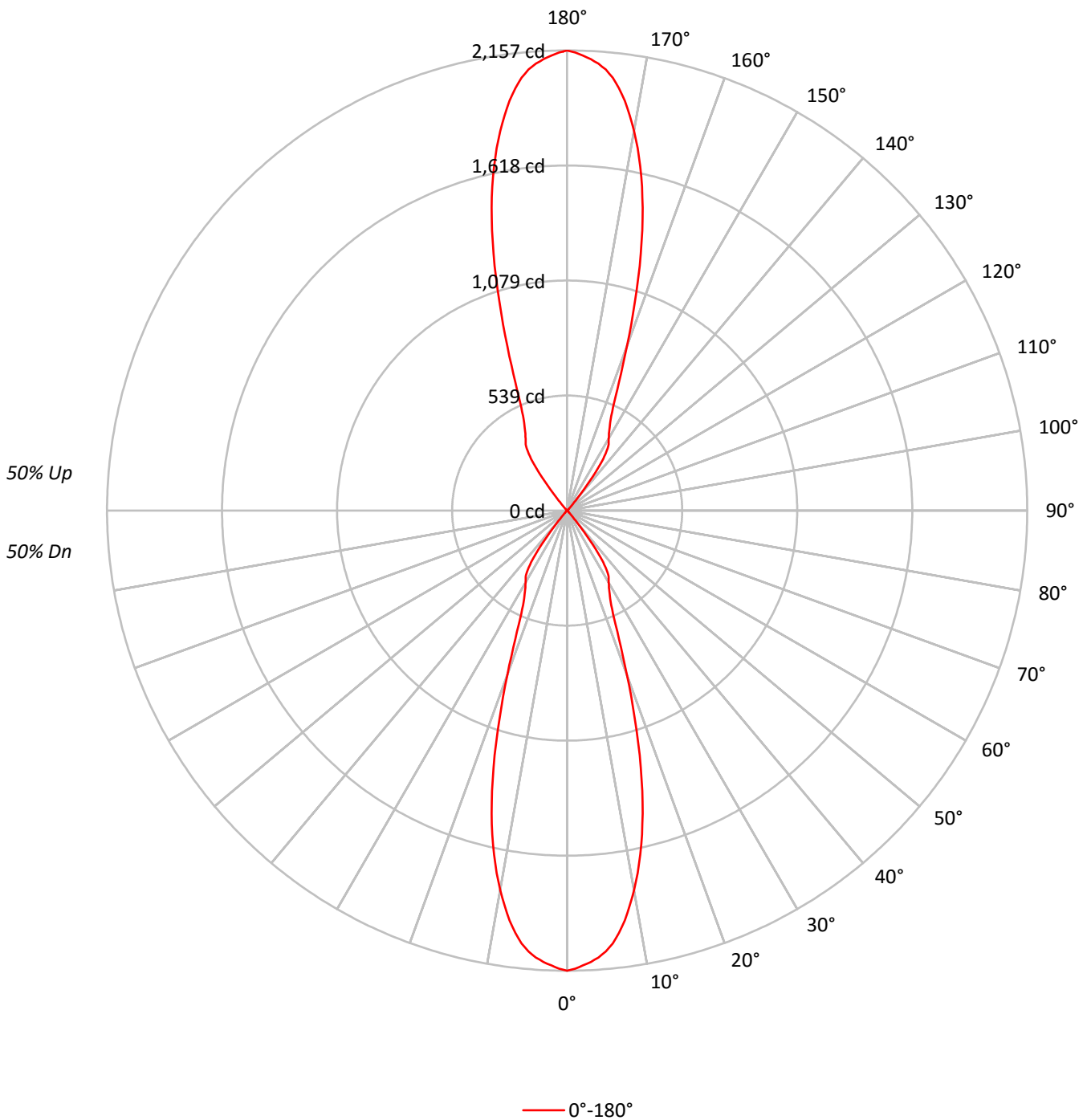
Lumens per Lamp: N/A
Luminaire Lumens: 1940.1 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.56
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 19.7
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	41
5	78	69	63	59	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°	266044
5°	256932
10°	226211
15°	173770
20°	107477
25°	66592
30°	55490
35°	44420
40°	9677
45°	2058
50°	384
55°	215
60°	173
65°	88
70°	108
75°	143
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.5	9.8
10°-20°	364.9	18.8
20°-30°	239.6	12.4
30°-40°	161.6	8.3
40°-50°	12.7	0.7
50°-60°	0.9	0.0
60°-70°	0.4	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°	0.4	0.0
120°-130°	0.9	0.0
130°-140°	12.7	0.7
140°-150°	161.6	8.3
150°-160°	239.6	12.4
160°-170°	364.9	18.8
170°-180°	189.5	9.8
0°-30°	794.1	40.9
0°-40°	955.7	49.3
0°-60°	969.3	50.0
0°-90°	970.0	50.0
90°-120°	0.7	0.0
90°-150°	176.0	9.1
90°-180°	970.0	50.0
0°-180°	1940.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2157	
5°	2075	190
15°	1361	365
25°	489	240
35°	295	162
45°	12	13
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	1	1
135°	12	13
145°	295	162
155°	489	240
165°	1361	365
175°	2075	190
180°	2157	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2156.9
1°	2147.4
2°	2133.6
3°	2118.4
4°	2100.5
5°	2075.1
6°	2040.3
7°	1995.0
8°	1939.3
9°	1874.7
10°	1806.1
11°	1730.8
12°	1648.7
13°	1559.1
14°	1463.8
15°	1360.8
16°	1252.3
17°	1140.1
18°	1027.9
19°	922.5
20°	818.8
21°	728.9
22°	648.1
23°	581.2
24°	529.5
25°	489.3
26°	460.2
27°	437.9
28°	419.0
29°	403.5
30°	389.6
32.5°	360.6
35°	295.0
37.5°	175.4
40°	60.1
42.5°	17.9
45°	11.8
47.5°	7.4
50°	2.0
52.5°	1.0
55°	1.0
57.5°	0.7
60°	0.7
62.5°	0.7
65°	0.3

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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°	0.3
117.5°	0.7
120°	0.7
122.5°	0.7
125°	1.0
127.5°	1.0
130°	2.0
132.5°	7.4
135°	11.8
137.5°	17.9
140°	60.1
142.5°	175.4
145°	295.0
147.5°	360.6
150°	389.6
151°	403.5
152°	419.0
153°	437.9
154°	460.2
155°	489.3
156°	529.5
157°	581.2
158°	648.1
159°	728.9
160°	818.8
161°	922.5



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CANDELA DISTRIBUTION (continued):

	0°
162°	1027.9
163°	1140.1
164°	1252.3
165°	1360.8
166°	1463.8
167°	1559.1
168°	1648.7
169°	1730.8
170°	1806.1
171°	1874.7
172°	1939.3
173°	1995.0
174°	2040.3
175°	2075.1
176°	2100.5
177°	2118.4
178°	2133.6
179°	2147.4
180°	2156.9

(END OF REPORT)