

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: P221986

Luminaire Tested: **9004-W2-FL-LED2797-F-BK-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221986
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-LED2797-F-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 2700K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

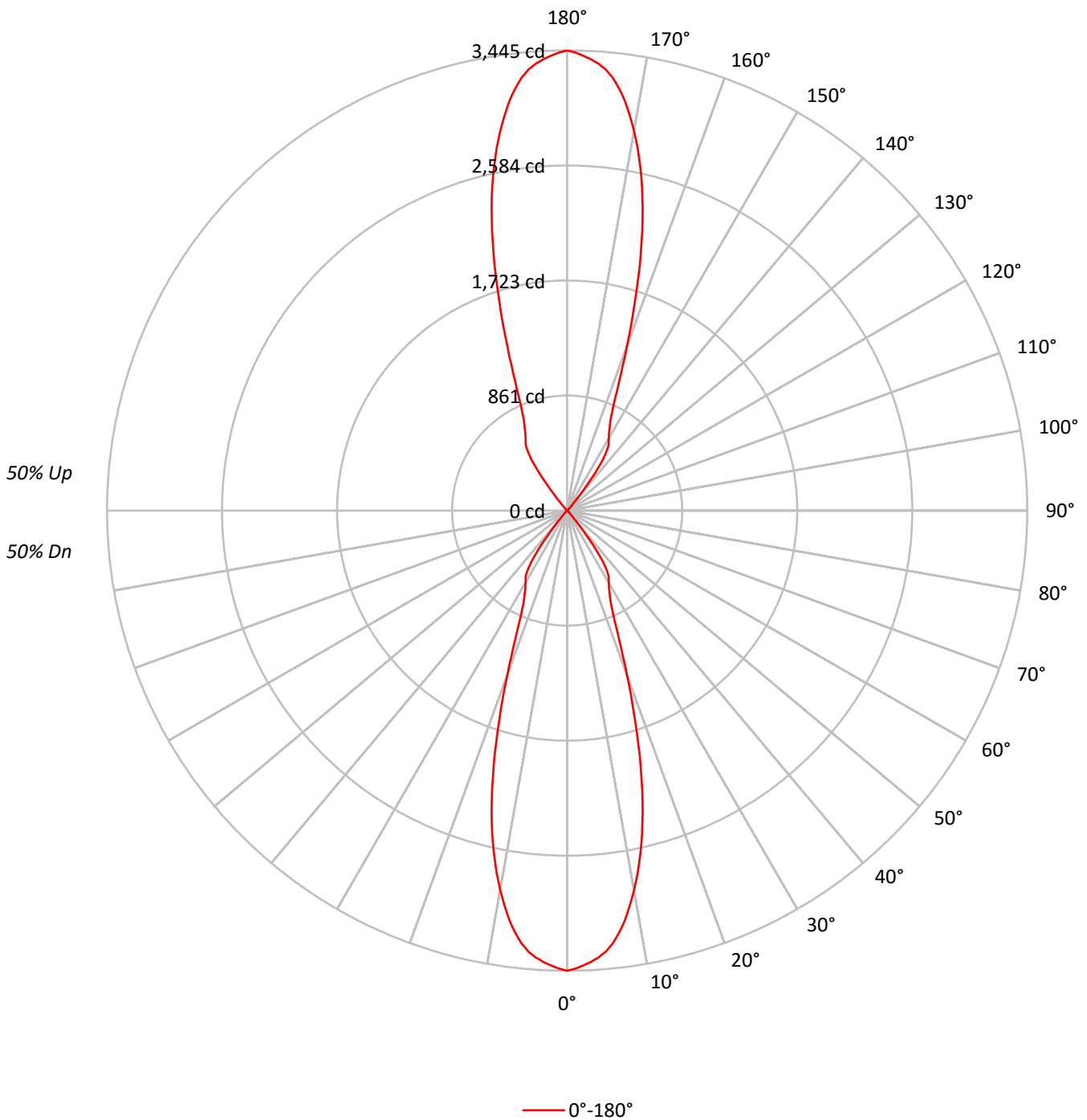
Lumens per Lamp: N/A
Luminaire Lumens: 3098.9 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.56
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

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	41
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°	424938
5°	410391
10°	361329
15°	277549
20°	171664
25°	106360
30°	88632
35°	70952
40°	15474
45°	3297
50°	614
55°	344
60°	271
65°	146
70°	180
75°	238
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.7	9.8
10°-20°	582.9	18.8
20°-30°	382.8	12.4
30°-40°	258.1	8.3
40°-50°	20.4	0.7
50°-60°	1.4	0.0
60°-70°	0.7	0.0
70°-80°	0.5	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.5	0.0
110°-120°	0.7	0.0
120°-130°	1.4	0.0
130°-140°	20.4	0.7
140°-150°	258.1	8.3
150°-160°	382.8	12.4
160°-170°	582.9	18.8
170°-180°	302.7	9.8
0°-30°	1268.3	40.9
0°-40°	1526.4	49.3
0°-60°	1548.3	50.0
0°-90°	1549.4	50.0
90°-120°	1.2	0.0
90°-150°	281.1	9.1
90°-180°	1549.0	50.0
0°-180°	3098.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3445	
5°	3314	303
15°	2174	583
25°	782	383
35°	471	258
45°	19	20
55°	2	1
65°	0	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	0	1
125°	2	1
135°	19	20
145°	471	258
155°	782	383
165°	2174	583
175°	3314	303
180°	3445	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3445.1
1°	3430.0
2°	3407.9
3°	3383.6
4°	3355.0
5°	3314.5
6°	3258.9
7°	3186.6
8°	3097.5
9°	2994.4
10°	2884.9
11°	2764.5
12°	2633.3
13°	2490.3
14°	2338.1
15°	2173.5
16°	2000.2
17°	1821.0
18°	1641.9
19°	1473.5
20°	1307.8
21°	1164.2
22°	1035.2
23°	928.3
24°	845.8
25°	781.5
26°	735.1
27°	699.5
28°	669.3
29°	644.4
30°	622.3
32.5°	575.9
35°	471.2
37.5°	280.1
40°	96.1
42.5°	28.6
45°	18.9
47.5°	11.9
50°	3.2
52.5°	1.6
55°	1.6
57.5°	1.1
60°	1.1
62.5°	1.1
65°	0.5

TEST NUMBER: P221986

CATALOG NUMBER: 9004-W2-FL-LED2797-F-BK-L2-UNV

CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.5
70°	0.5
72.5°	0.5
75°	0.5
77.5°	0.5
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°	0.5
105°	0.5
107.5°	0.5
110°	0.5
112.5°	0.5
115°	0.5
117.5°	1.1
120°	1.1
122.5°	1.1
125°	1.6
127.5°	1.6
130°	3.2
132.5°	11.9
135°	18.9
137.5°	28.6
140°	96.1
142.5°	280.1
145°	471.2
147.5°	575.9
150°	622.3
151°	644.4
152°	669.3
153°	699.5
154°	735.1
155°	781.5
156°	845.8
157°	928.3
158°	1035.2
159°	1164.2
160°	1307.8
161°	1473.5



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CANDELA DISTRIBUTION (continued):

	0°
162°	1641.9
163°	1821.0
164°	2000.2
165°	2173.5
166°	2338.1
167°	2490.3
168°	2633.3
169°	2764.5
170°	2884.9
171°	2994.4
172°	3097.5
173°	3186.6
174°	3258.9
175°	3314.5
176°	3355.0
177°	3383.6
178°	3407.9
179°	3430.0
180°	3445.1

(END OF REPORT)