

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: P221723

Luminaire Tested: **9004-W2-[RW, RI]-LED2790-F-BK-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221723
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29493)
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]-LED2790-F-BK-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 2700K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3789.7 lumens
Efficiency: N/A
Efficacy: 66.3 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.56
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

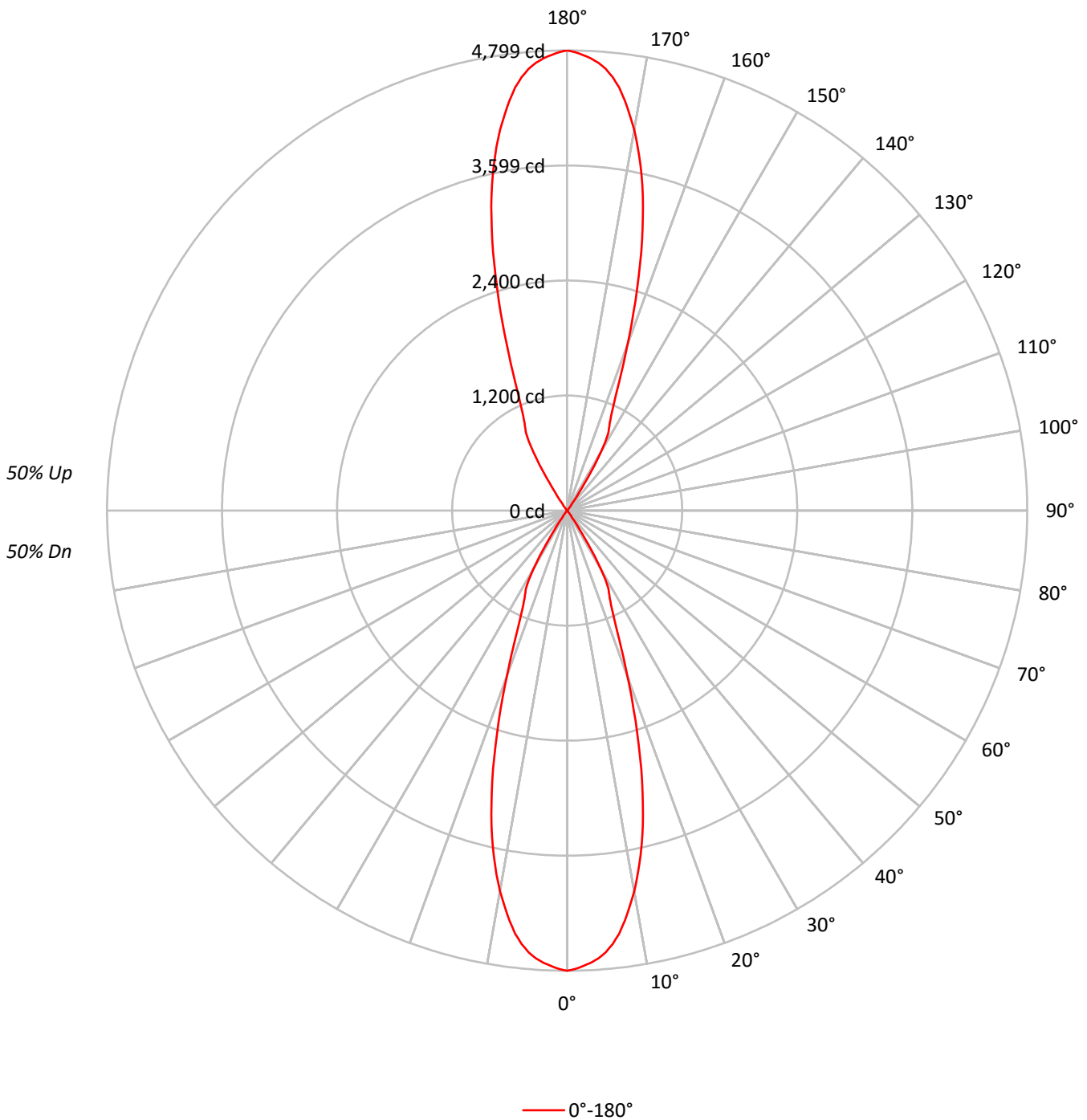
Input Watts (W): 57.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	95	92	93	90	88	86	77	76	74	65	64	63	54	53	53	48
2	95	89	85	81	88	83	79	76	72	69	67	61	60	58	52	51	50	46
3	89	82	77	73	83	77	72	69	67	64	61	58	56	54	50	49	47	44
4	84	76	70	66	78	71	66	63	63	59	57	55	53	51	48	46	45	42
5	79	71	65	60	74	67	61	58	59	55	53	52	50	48	46	44	43	40
6	75	66	60	55	70	62	57	53	56	52	49	50	47	45	44	42	41	38
7	71	62	56	52	67	59	53	50	53	49	46	48	45	43	42	41	39	37
8	68	58	52	48	64	55	50	47	50	46	44	45	43	40	41	39	37	35
9	64	55	49	45	61	52	47	44	48	44	41	43	41	39	39	37	36	34
10	61	52	46	43	58	50	45	41	46	42	39	42	39	37	38	36	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	591936
5°	572331
10°	504676
15°	388530
20°	241036
25°	147447
30°	100354
35°	13296
40°	3768
45°	925
50°	729
55°	495
60°	370
65°	438
70°	289
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.3	11.1
10°-20°	816.2	21.5
20°-30°	523.4	13.8
30°-40°	123.4	3.3
40°-50°	5.8	0.2
50°-60°	2.3	0.1
60°-70°	1.2	0.0
70°-80°	0.3	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.5	0.0
110°-120°	1.2	0.0
120°-130°	2.3	0.1
130°-140°	5.8	0.2
140°-150°	123.4	3.3
150°-160°	523.4	13.8
160°-170°	816.2	21.5
170°-180°	422.3	11.1
0°-30°	1761.8	46.5
0°-40°	1885.2	49.7
0°-60°	1893.3	50.0
0°-90°	1894.8	50.0
90°-120°	1.7	0.0
90°-150°	133.2	3.5
90°-180°	1895.0	50.0
0°-180°	3789.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4799	
5°	4622	422
15°	3043	816
25°	1083	523
35°	88	123
45°	5	6
55°	2	2
65°	2	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	1
115°	2	1
125°	2	2
135°	5	6
145°	88	123
155°	1083	523
165°	3043	816
175°	4622	422
180°	4799	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4799.0
1°	4781.6
2°	4753.7
3°	4722.0
4°	4680.5
5°	4622.4
6°	4544.7
7°	4445.9
8°	4317.6
9°	4178.1
10°	4029.4
11°	3861.2
12°	3680.9
13°	3485.5
14°	3269.0
15°	3042.6
16°	2802.7
17°	2554.5
18°	2307.1
19°	2067.2
20°	1836.3
21°	1631.1
22°	1447.8
23°	1293.9
24°	1176.9
25°	1083.4
26°	1013.2
27°	958.9
28°	910.6
29°	828.4
30°	704.6
32.5°	336.5
35°	88.3
37.5°	46.8
40°	23.4
42.5°	7.5
45°	5.3
47.5°	4.5
50°	3.8
52.5°	3.0
55°	2.3
57.5°	2.3
60°	1.5
62.5°	1.5
65°	1.5



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.8
70°	0.8
72.5°	0.8
75°	0.0
77.5°	0.0
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°	0.0
105°	0.0
107.5°	0.8
110°	0.8
112.5°	0.8
115°	1.5
117.5°	1.5
120°	1.5
122.5°	2.3
125°	2.3
127.5°	3.0
130°	3.8
132.5°	4.5
135°	5.3
137.5°	7.5
140°	23.4
142.5°	46.8
145°	88.3
147.5°	336.5
150°	704.6
151°	828.4
152°	910.6
153°	958.9
154°	1013.2
155°	1083.4
156°	1176.9
157°	1293.9
158°	1447.8
159°	1631.1
160°	1836.3
161°	2067.2



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CANDELA DISTRIBUTION (continued):

	0°
162°	2307.1
163°	2554.5
164°	2802.7
165°	3042.6
166°	3269.0
167°	3485.5
168°	3680.9
169°	3861.2
170°	4029.4
171°	4178.1
172°	4317.6
173°	4445.9
174°	4544.7
175°	4622.4
176°	4680.5
177°	4722.0
178°	4753.7
179°	4781.6
180°	4799.0

(END OF REPORT)