

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: P221981

Luminaire Tested: **9004-W2-FL-LED2790-W-BK-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221981
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29499)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-FL-LED2790-W-BK-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 2700K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4210.1 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

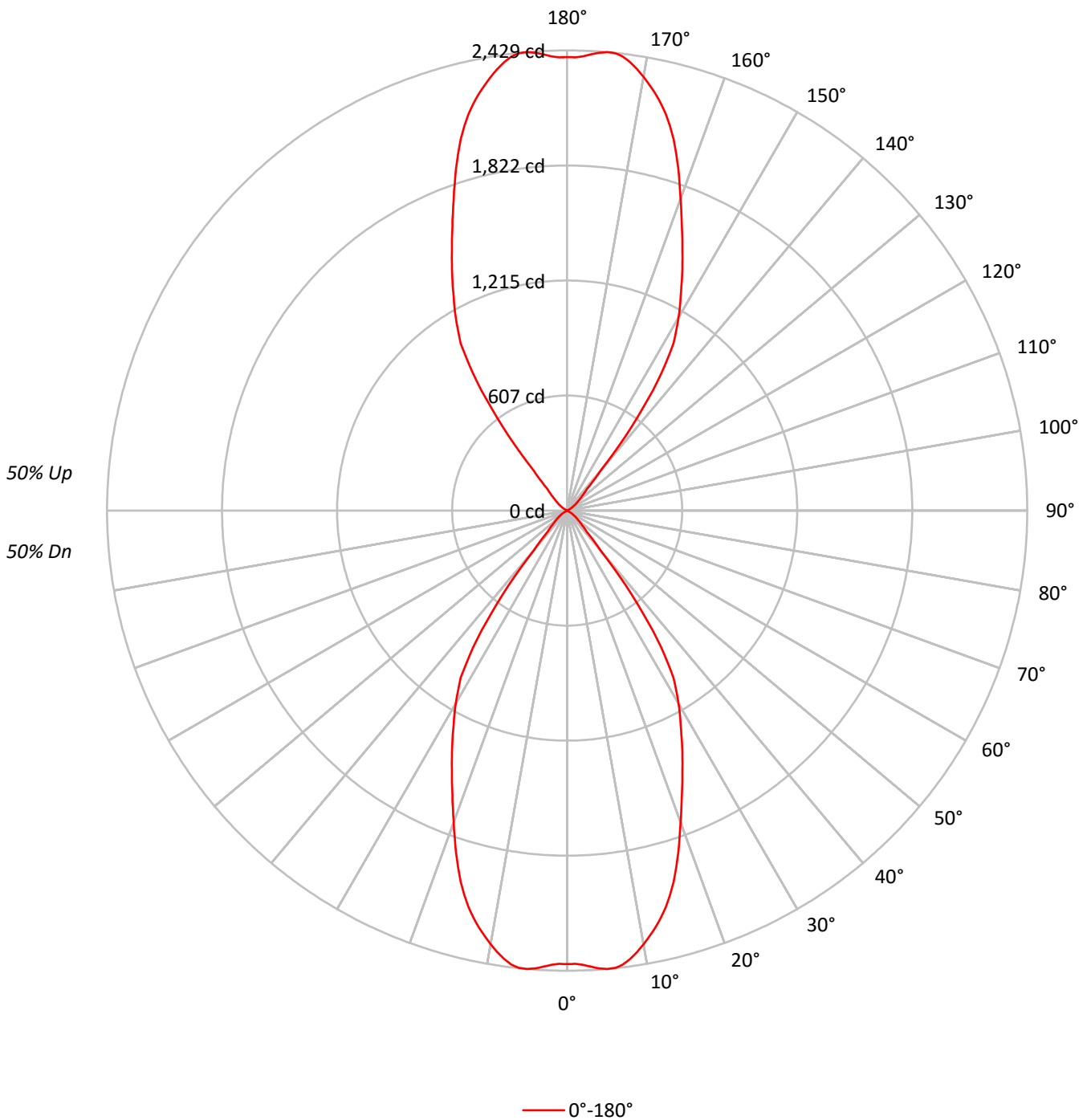
Input Watts (W): 57
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	94	91	92	90	87	85	76	75	73		64	63	62		53	53	52	47
2	93	88	83	79	86	81	77	74	70	67	65		60	58	56		50	49	48	43
3	87	80	74	69	81	74	69	65	65	61	58		56	53	51		47	46	44	40
4	81	73	66	61	76	68	63	58	60	56	52		52	49	47		44	42	41	38
5	76	67	60	55	71	63	57	53	55	51	48		48	45	43		42	40	38	35
6	71	61	55	50	66	58	52	48	51	47	43		45	42	39		39	37	35	33
7	67	57	50	45	62	54	48	43	48	43	40		42	39	36		37	35	33	31
8	63	52	46	41	59	50	44	40	45	40	37		40	36	34		35	33	31	29
9	59	49	42	38	56	46	41	37	42	37	34		37	34	31		33	31	29	27
10	56	46	39	35	52	43	38	34	39	35	32		35	32	29		31	29	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	295265
5°	300788
10°	291228
15°	268214
20°	229839
25°	196007
30°	167623
35°	125295
40°	44457
45°	20793
50°	13759
55°	9247
60°	4662
65°	1109
70°	829
75°	715
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.6	5.4
10°-20°	579.7	13.8
20°-30°	661.8	15.7
30°-40°	485.8	11.5
40°-50°	103.1	2.4
50°-60°	39.0	0.9
60°-70°	5.6	0.1
70°-80°	1.5	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	1.5	0.0
110°-120°	5.6	0.1
120°-130°	39.0	0.9
130°-140°	103.1	2.4
140°-150°	485.8	11.5
150°-160°	661.8	15.7
160°-170°	579.7	13.8
170°-180°	228.6	5.4
0°-30°	1470.1	34.9
0°-40°	1955.9	46.5
0°-60°	2098.0	49.8
0°-90°	2105.1	50.0
90°-120°	7.1	0.2
90°-150°	635.0	15.1
90°-180°	2105.0	50.0
0°-180°	4210.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2394	
5°	2429	229
15°	2100	580
25°	1440	662
35°	832	486
45°	119	103
55°	43	39
65°	4	6
75°	2	2
85°	0	0
90°	0	0
95°	0	0
105°	2	2
115°	4	6
125°	43	39
135°	119	103
145°	832	486
155°	1440	662
165°	2100	580
175°	2429	229
180°	2394	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2393.8
1°	2393.1
2°	2399.1
3°	2411.2
4°	2422.5
5°	2429.3
6°	2427.8
7°	2415.0
8°	2390.1
9°	2359.1
10°	2325.2
11°	2286.7
12°	2247.5
13°	2203.0
14°	2154.7
15°	2100.4
16°	2038.5
17°	1969.8
18°	1898.9
19°	1824.2
20°	1751.0
21°	1683.1
22°	1617.5
23°	1555.6
24°	1496.8
25°	1440.2
26°	1385.1
27°	1329.3
28°	1275.8
29°	1226.0
30°	1176.9
32.5°	1044.9
35°	832.1
37.5°	562.1
40°	276.1
42.5°	155.4
45°	119.2
47.5°	93.6
50°	71.7
52.5°	56.6
55°	43.0
57.5°	30.9
60°	18.9
62.5°	5.3
65°	3.8



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	3.0
70°	2.3
72.5°	2.3
75°	1.5
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°	1.5
107.5°	2.3
110°	2.3
112.5°	3.0
115°	3.8
117.5°	5.3
120°	18.9
122.5°	30.9
125°	43.0
127.5°	56.6
130°	71.7
132.5°	93.6
135°	119.2
137.5°	155.4
140°	276.1
142.5°	562.1
145°	832.1
147.5°	1044.9
150°	1176.9
151°	1226.0
152°	1275.8
153°	1329.3
154°	1385.1
155°	1440.2
156°	1496.8
157°	1555.6
158°	1617.5
159°	1683.1
160°	1751.0
161°	1824.2



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CANDELA DISTRIBUTION (continued):

	0°
162°	1898.9
163°	1969.8
164°	2038.5
165°	2100.4
166°	2154.7
167°	2203.0
168°	2247.5
169°	2286.7
170°	2325.2
171°	2359.1
172°	2390.1
173°	2415.0
174°	2427.8
175°	2429.3
176°	2422.5
177°	2411.2
178°	2399.1
179°	2393.1
180°	2393.8

(END OF REPORT)