

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: FAIL-SAFE

Report Number: P835799

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-6STD-50-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835799
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-2-INS-OPL-LD4-6STD-50-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

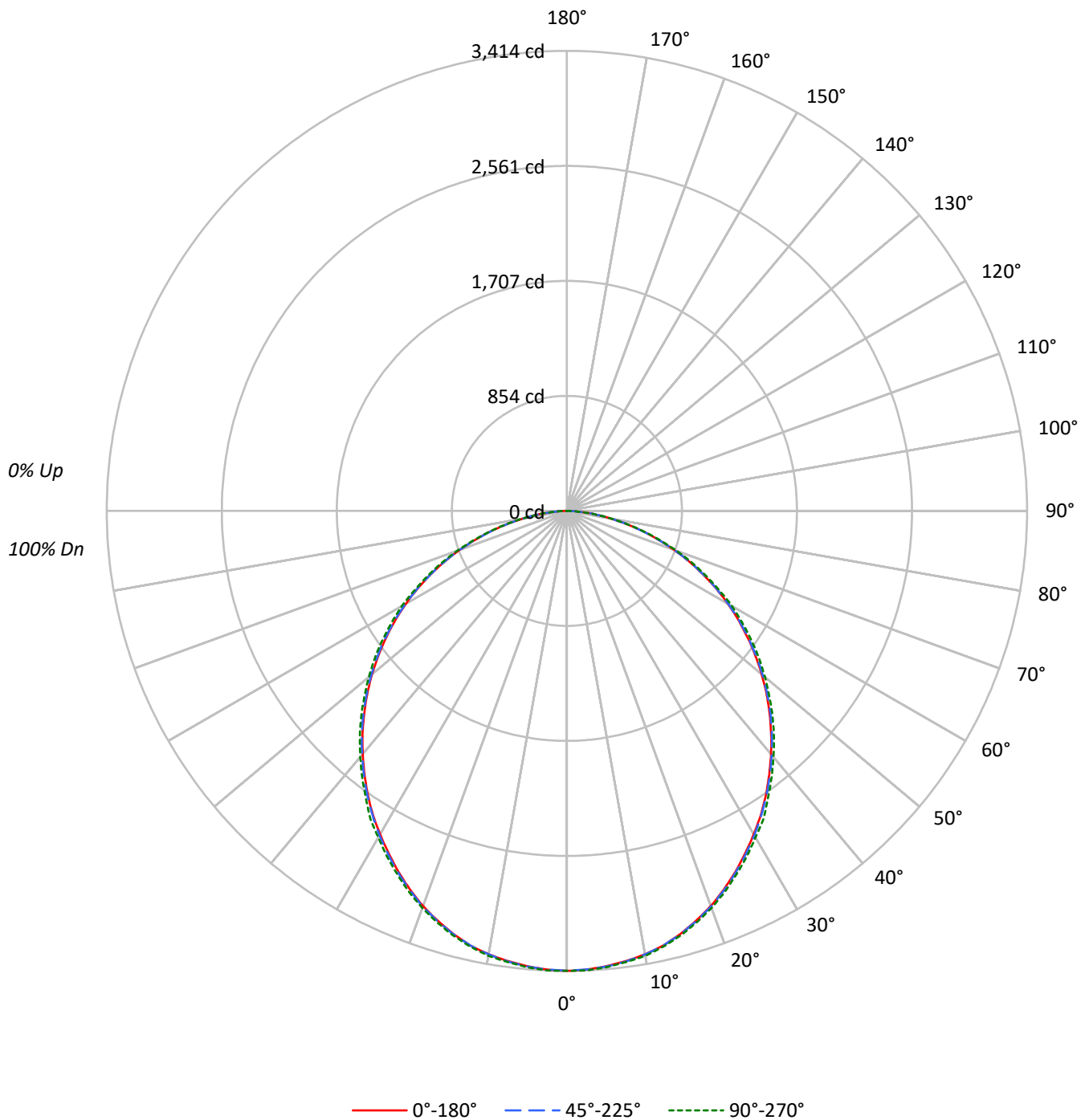
Lumens per Lamp: N/A
Luminaire Lumens: 9222.2 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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: 28.75 FT

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Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84		
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59		
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51		
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	44		
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38		
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34		
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30		
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27		
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9184	9184	9184
5°	9160	9168	9179
10°	9131	9133	9160
15°	9055	9061	9087
20°	8938	8948	8980
25°	8776	8797	8837
30°	8611	8640	8693
35°	8454	8475	8542
40°	8276	8303	8377
45°	8094	8129	8213
50°	7899	7934	8025
55°	7674	7711	7837
60°	7420	7450	7618
65°	7095	7118	7253
70°	6660	6666	6810
75°	6054	6031	6172
80°	5201	5179	5267
85°	4035	3971	3992

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.5	3.5
10°-20°	917.4	9.9
20°-30°	1365.7	14.8
30°-40°	1615.1	17.5
40°-50°	1648.8	17.9
50°-60°	1471.5	16.0
60°-70°	1108.3	12.0
70°-80°	618.1	6.7
80°-90°	154.8	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2605.6	28.3
0°-40°	4220.7	45.8
0°-60°	7341.0	79.6
0°-90°	9222.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9222.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3413	3413	3413	3413	3413	
5°	3391	3397	3394	3395	3398	322
15°	3250	3254	3253	3255	3262	916
25°	2956	2959	2963	2971	2976	1362
35°	2574	2571	2580	2590	2600	1609
45°	2127	2126	2136	2147	2158	1641
55°	1636	1634	1644	1655	1670	1462
65°	1114	1110	1118	1128	1139	1102
75°	582	577	580	583	594	617
85°	131	127	129	127	129	157
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3413.0	3413.0	3413.0	3413.0	3413.0
2.5°	3407.3	3413.0	3405.9	3407.3	3413.7
5°	3391.1	3397.4	3393.9	3394.6	3398.1
7.5°	3368.4	3376.9	3372.0	3373.4	3376.9
10°	3341.6	3347.9	3342.3	3345.8	3352.2
12.5°	3303.4	3306.3	3303.4	3304.8	3311.9
15°	3250.4	3254.0	3252.6	3255.4	3261.7
17.5°	3188.3	3192.5	3191.8	3197.4	3202.4
20°	3121.1	3121.8	3124.7	3130.3	3136.0
22.5°	3042.0	3044.1	3046.9	3054.7	3060.4
25°	2955.8	2959.3	2962.8	2970.6	2976.3
27.5°	2864.6	2868.2	2873.1	2881.6	2890.8
30°	2771.3	2771.3	2780.5	2789.0	2797.5
32.5°	2677.4	2673.8	2682.3	2692.9	2713.4
35°	2573.5	2570.7	2579.9	2589.7	2600.3
37.5°	2465.4	2463.3	2473.9	2484.5	2494.4
40°	2355.9	2353.0	2363.6	2374.2	2384.8
42.5°	2243.5	2242.1	2252.0	2262.6	2273.9
45°	2126.9	2126.2	2136.1	2146.7	2158.0
47.5°	2008.2	2006.8	2016.7	2028.0	2037.9
50°	1886.7	1885.3	1895.1	1906.4	1917.0
52.5°	1761.6	1761.6	1770.8	1780.7	1796.9
55°	1635.8	1633.7	1643.6	1654.9	1670.4
57.5°	1508.6	1505.8	1515.0	1526.3	1540.4
60°	1378.6	1375.8	1384.3	1395.6	1415.4
62.5°	1247.2	1242.9	1251.4	1262.0	1274.0
65°	1114.3	1110.1	1117.9	1127.8	1139.1
67.5°	980.8	975.8	983.6	992.1	1002.7
70°	846.5	841.6	847.2	855.7	865.6
72.5°	713.0	708.0	713.0	716.5	728.5
75°	582.3	577.3	580.1	583.0	593.6
77.5°	455.1	450.1	455.8	457.2	463.5
80°	335.6	330.7	334.2	334.9	339.9
82.5°	226.8	222.6	227.5	224.0	228.2
85°	130.7	127.2	128.6	127.2	129.3
87.5°	51.6	48.8	49.5	46.6	46.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)