

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: P835788

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

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835788
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-LD4-2HI-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

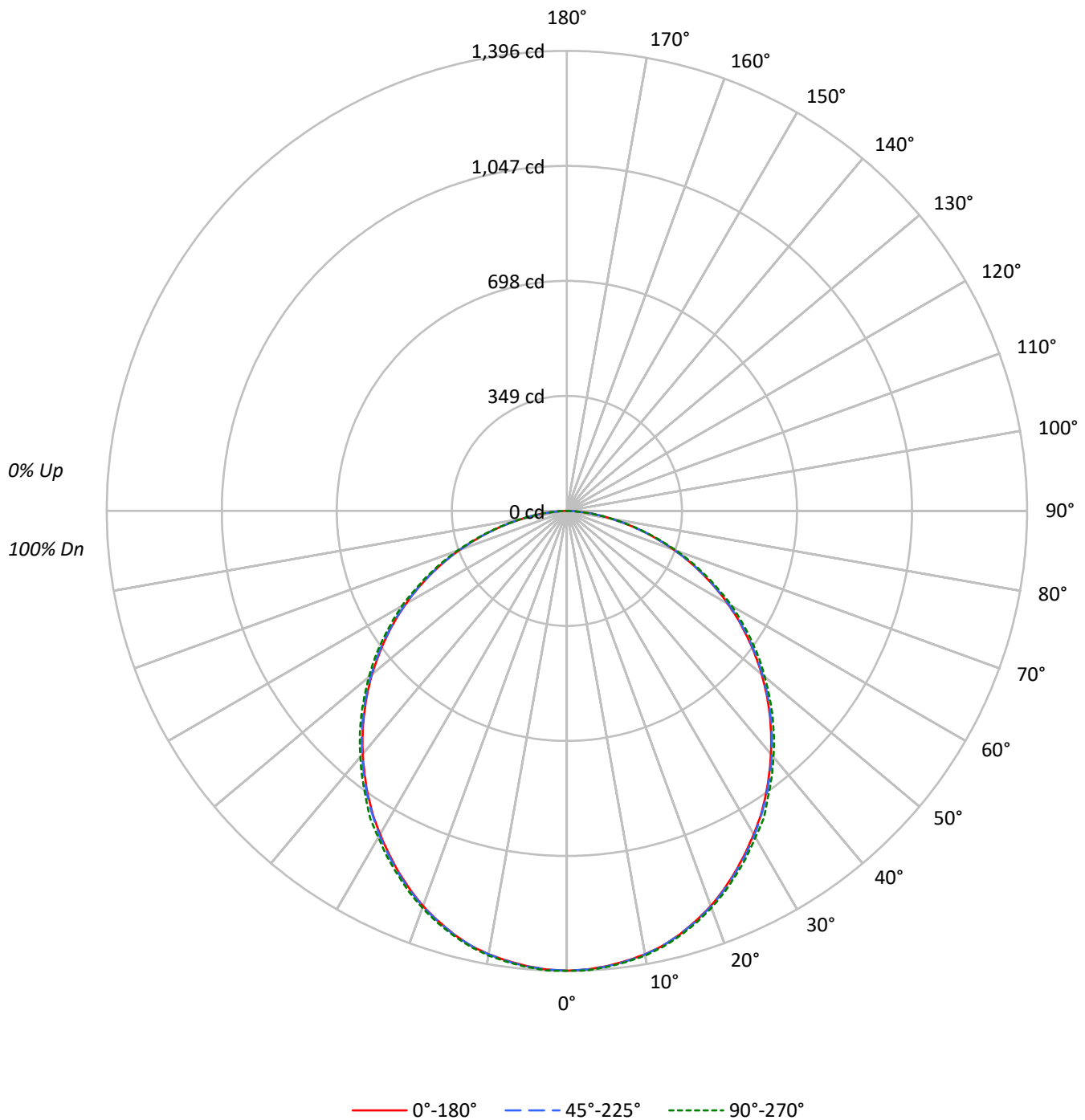
Lumens per Lamp: N/A
Luminaire Lumens: 3770.4 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3755	3755	3755
5°	3745	3748	3753
10°	3733	3734	3745
15°	3702	3705	3715
20°	3654	3658	3672
25°	3588	3597	3613
30°	3521	3532	3554
35°	3457	3465	3492
40°	3384	3395	3425
45°	3309	3323	3358
50°	3229	3244	3281
55°	3138	3153	3204
60°	3033	3046	3115
65°	2901	2910	2965
70°	2723	2725	2784
75°	2475	2466	2523
80°	2126	2117	2154
85°	1649	1624	1633

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.9	3.5
10°-20°	375.1	9.9
20°-30°	558.4	14.8
30°-40°	660.3	17.5
40°-50°	674.1	17.9
50°-60°	601.6	16.0
60°-70°	453.1	12.0
70°-80°	252.7	6.7
80°-90°	63.3	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°	1065.3	28.3
0°-40°	1725.6	45.8
0°-60°	3001.3	79.6
0°-90°	3770.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3770.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1395	1395	1395	1395	1395	
5°	1386	1389	1388	1388	1389	132
15°	1329	1330	1330	1331	1334	375
25°	1208	1210	1211	1214	1217	557
35°	1052	1051	1055	1059	1063	658
45°	870	869	873	878	882	671
55°	669	668	672	677	683	598
65°	456	454	457	461	466	451
75°	238	236	237	238	243	252
85°	53	52	53	52	53	64
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1395.4	1395.4	1395.4	1395.4	1395.4
2.5°	1393.1	1395.4	1392.5	1393.1	1395.7
5°	1386.4	1389.0	1387.6	1387.9	1389.3
7.5°	1377.2	1380.6	1378.6	1379.2	1380.6
10°	1366.2	1368.8	1366.5	1367.9	1370.5
12.5°	1350.6	1351.7	1350.6	1351.2	1354.1
15°	1328.9	1330.4	1329.8	1330.9	1333.5
17.5°	1303.5	1305.2	1304.9	1307.3	1309.3
20°	1276.0	1276.3	1277.5	1279.8	1282.1
22.5°	1243.7	1244.6	1245.7	1248.9	1251.2
25°	1208.4	1209.9	1211.3	1214.5	1216.8
27.5°	1171.2	1172.6	1174.6	1178.1	1181.9
30°	1133.0	1133.0	1136.8	1140.3	1143.7
32.5°	1094.6	1093.2	1096.6	1101.0	1109.4
35°	1052.2	1051.0	1054.8	1058.8	1063.1
37.5°	1008.0	1007.1	1011.4	1015.8	1019.8
40°	963.2	962.0	966.4	970.7	975.0
42.5°	917.2	916.7	920.7	925.0	929.7
45°	869.6	869.3	873.3	877.7	882.3
47.5°	821.0	820.5	824.5	829.1	833.2
50°	771.4	770.8	774.8	779.4	783.8
52.5°	720.2	720.2	724.0	728.0	734.7
55°	668.8	667.9	672.0	676.6	682.9
57.5°	616.8	615.6	619.4	624.0	629.8
60°	563.6	562.5	565.9	570.6	578.7
62.5°	509.9	508.2	511.6	516.0	520.9
65°	455.6	453.9	457.0	461.1	465.7
67.5°	401.0	399.0	402.1	405.6	409.9
70°	346.1	344.1	346.4	349.9	353.9
72.5°	291.5	289.5	291.5	292.9	297.9
75°	238.0	236.0	237.2	238.3	242.7
77.5°	186.0	184.0	186.3	186.9	189.5
80°	137.2	135.2	136.6	136.9	139.0
82.5°	92.7	91.0	93.0	91.6	93.3
85°	53.4	52.0	52.6	52.0	52.9
87.5°	21.1	19.9	20.2	19.1	19.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)