

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: P835663

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-3LO-40-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835663
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-LD4-3LO-40-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

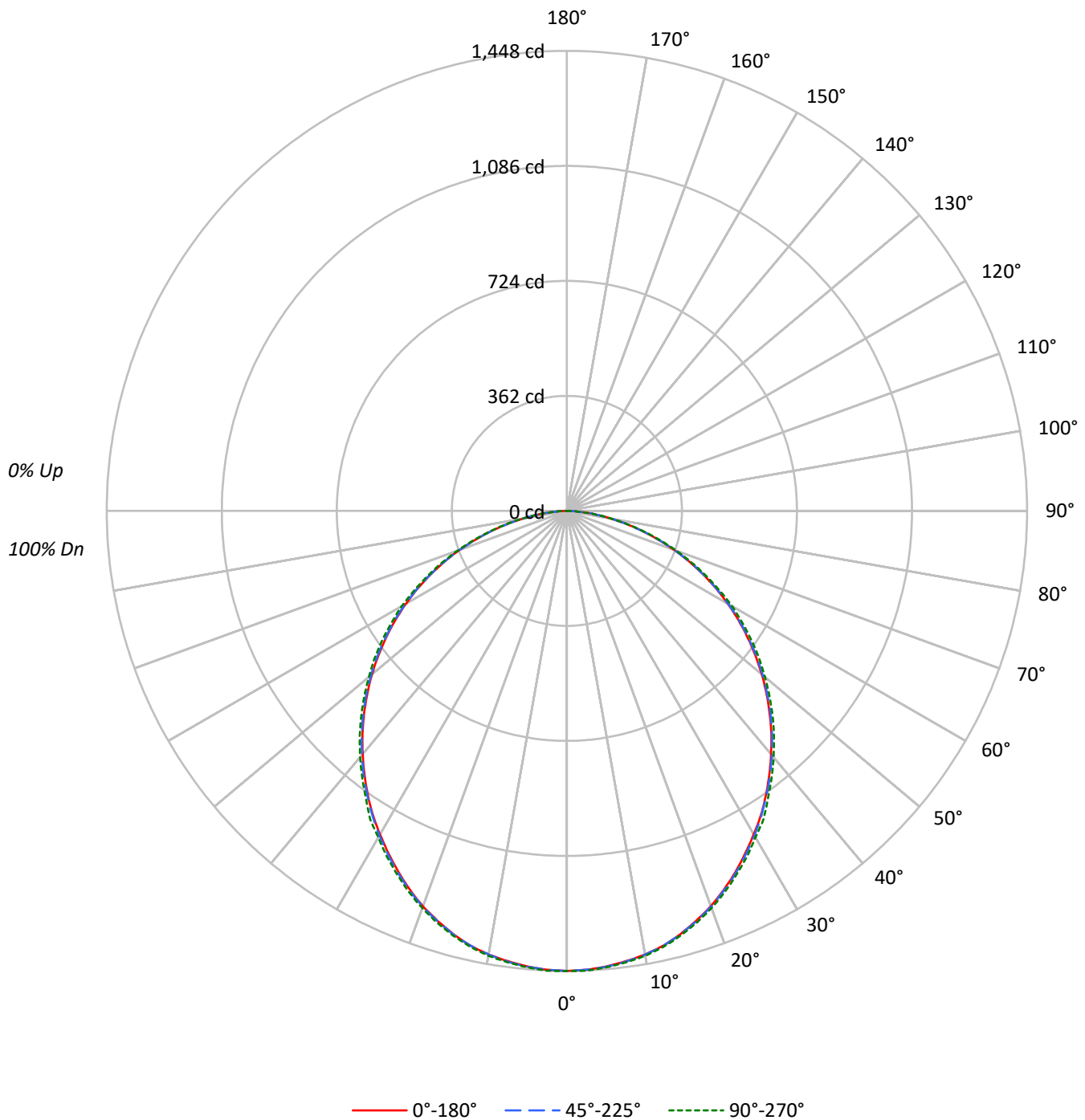
Lumens per Lamp: N/A
Luminaire Lumens: 3913.2 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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°	3897	3897	3897
5°	3887	3890	3895
10°	3874	3875	3887
15°	3842	3845	3856
20°	3793	3797	3811
25°	3724	3733	3750
30°	3654	3666	3688
35°	3587	3596	3625
40°	3511	3523	3555
45°	3435	3449	3485
50°	3352	3367	3405
55°	3256	3272	3325
60°	3148	3161	3232
65°	3011	3020	3077
70°	2826	2829	2890
75°	2569	2560	2619
80°	2207	2197	2235
85°	1714	1686	1695

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.8	3.5
10°-20°	389.3	9.9
20°-30°	579.5	14.8
30°-40°	685.3	17.5
40°-50°	699.6	17.9
50°-60°	624.4	16.0
60°-70°	470.3	12.0
70°-80°	262.3	6.7
80°-90°	65.7	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°	1105.6	28.3
0°-40°	1790.9	45.8
0°-60°	3114.9	79.6
0°-90°	3913.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3913.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1448	1448	1448	1448	1448	
5°	1439	1442	1440	1440	1442	137
15°	1379	1381	1380	1381	1384	389
25°	1254	1256	1257	1260	1263	578
35°	1092	1091	1095	1099	1103	683
45°	902	902	906	911	916	696
55°	694	693	697	702	709	620
65°	473	471	474	478	483	468
75°	247	245	246	247	252	262
85°	56	54	55	54	55	67
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1448.2	1448.2	1448.2	1448.2	1448.2
2.5°	1445.8	1448.2	1445.2	1445.8	1448.5
5°	1438.9	1441.6	1440.1	1440.4	1441.9
7.5°	1429.3	1432.9	1430.8	1431.4	1432.9
10°	1417.9	1420.6	1418.2	1419.7	1422.4
12.5°	1401.7	1402.9	1401.7	1402.3	1405.3
15°	1379.2	1380.7	1380.1	1381.3	1384.0
17.5°	1352.8	1354.6	1354.3	1356.7	1358.8
20°	1324.4	1324.7	1325.9	1328.3	1330.7
22.5°	1290.8	1291.7	1292.9	1296.2	1298.6
25°	1254.2	1255.7	1257.2	1260.5	1262.9
27.5°	1215.5	1217.0	1219.1	1222.7	1226.6
30°	1175.9	1175.9	1179.8	1183.4	1187.0
32.5°	1136.1	1134.6	1138.2	1142.7	1151.4
35°	1092.0	1090.8	1094.7	1098.9	1103.4
37.5°	1046.1	1045.2	1049.7	1054.2	1058.4
40°	999.6	998.4	1002.9	1007.4	1011.9
42.5°	952.0	951.4	955.6	960.1	964.9
45°	902.5	902.2	906.4	910.9	915.7
47.5°	852.1	851.5	855.7	860.5	864.7
50°	800.6	800.0	804.2	808.9	813.4
52.5°	747.5	747.5	751.4	755.6	762.5
55°	694.1	693.2	697.4	702.2	708.8
57.5°	640.1	638.9	642.8	647.6	653.6
60°	585.0	583.8	587.4	592.2	600.6
62.5°	529.2	527.4	531.0	535.5	540.6
65°	472.8	471.0	474.3	478.5	483.3
67.5°	416.2	414.1	417.4	421.0	425.5
70°	359.2	357.1	359.5	363.1	367.3
72.5°	302.5	300.4	302.5	304.0	309.1
75°	247.1	245.0	246.2	247.4	251.9
77.5°	193.1	191.0	193.4	194.0	196.7
80°	142.4	140.3	141.8	142.1	144.2
82.5°	96.2	94.4	96.5	95.0	96.8
85°	55.5	54.0	54.6	54.0	54.9
87.5°	21.9	20.7	21.0	19.8	19.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)