

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: P835718

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-3STD-27-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835718
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-LD4-3STD-27-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

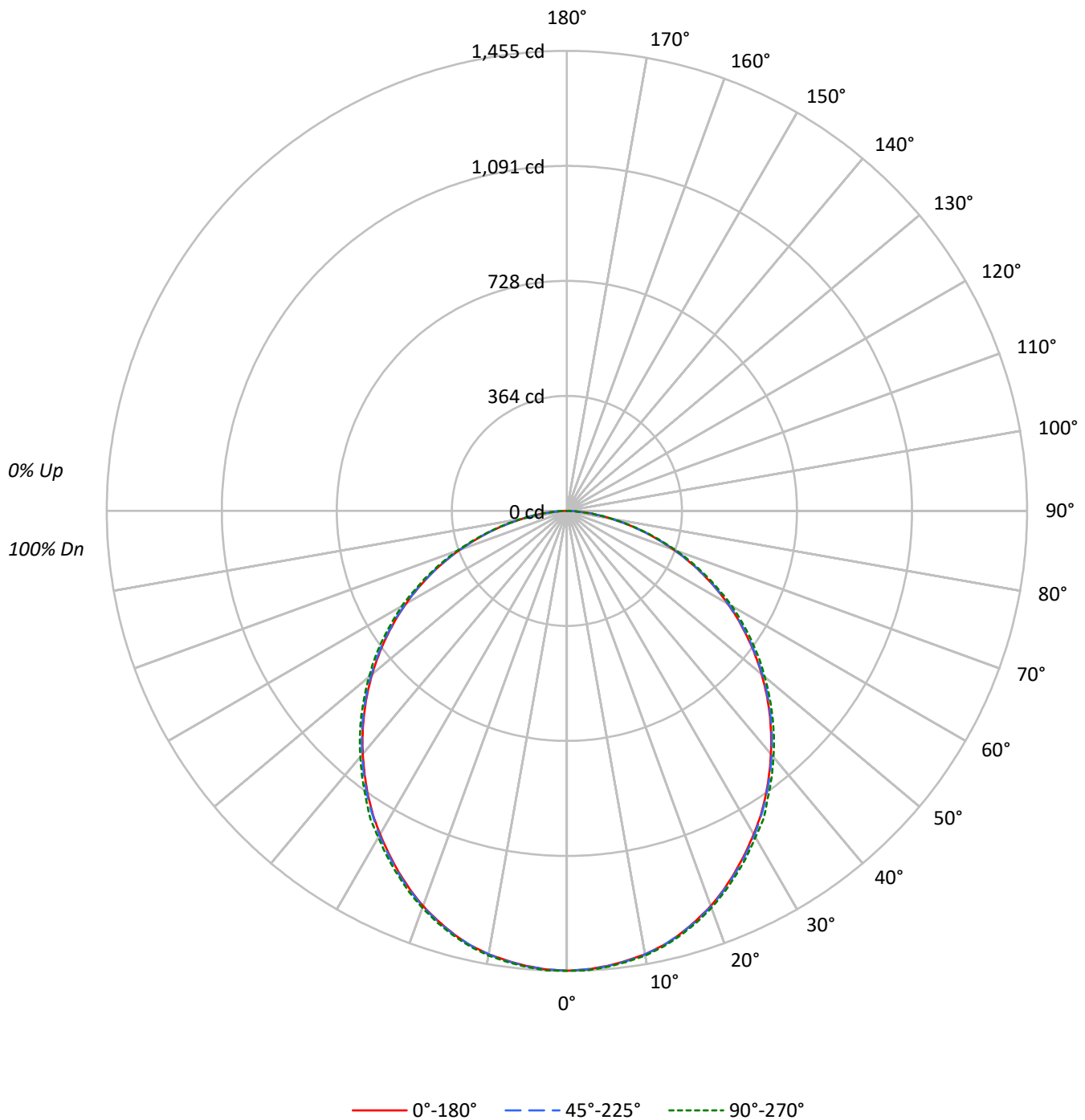
Lumens per Lamp: N/A
Luminaire Lumens: 3929.5 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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

Peachtree City, GA 30269



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3913	3913	3913
5°	3903	3906	3911
10°	3891	3891	3903
15°	3858	3861	3872
20°	3808	3813	3826
25°	3739	3749	3765
30°	3669	3681	3704
35°	3602	3611	3640
40°	3526	3538	3570
45°	3449	3464	3499
50°	3365	3381	3419
55°	3270	3286	3339
60°	3161	3174	3246
65°	3023	3033	3091
70°	2838	2840	2902
75°	2580	2570	2629
80°	2216	2207	2244
85°	1720	1692	1701

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.4	3.5
10°-20°	390.9	9.9
20°-30°	581.9	14.8
30°-40°	688.2	17.5
40°-50°	702.6	17.9
50°-60°	627.0	16.0
60°-70°	472.2	12.0
70°-80°	263.4	6.7
80°-90°	66.0	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°	1110.3	28.3
0°-40°	1798.4	45.8
0°-60°	3128.0	79.6
0°-90°	3929.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3929.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1454	1454	1454	1454	1454	
5°	1445	1448	1446	1446	1448	137
15°	1385	1386	1386	1387	1390	390
25°	1259	1261	1262	1266	1268	580
35°	1097	1095	1099	1104	1108	686
45°	906	906	910	915	920	699
55°	697	696	700	705	712	623
65°	475	473	476	480	485	470
75°	248	246	247	248	253	263
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°	1454.3	1454.3	1454.3	1454.3	1454.3
2.5°	1451.8	1454.3	1451.2	1451.8	1454.6
5°	1444.9	1447.6	1446.1	1446.4	1447.9
7.5°	1435.3	1438.9	1436.8	1437.4	1438.9
10°	1423.8	1426.6	1424.1	1425.6	1428.4
12.5°	1407.6	1408.8	1407.6	1408.2	1411.2
15°	1385.0	1386.5	1385.9	1387.1	1389.8
17.5°	1358.5	1360.3	1360.0	1362.4	1364.5
20°	1329.9	1330.2	1331.4	1333.8	1336.2
22.5°	1296.2	1297.1	1298.3	1301.6	1304.0
25°	1259.4	1261.0	1262.5	1265.8	1268.2
27.5°	1220.6	1222.1	1224.2	1227.8	1231.7
30°	1180.9	1180.9	1184.8	1188.4	1192.0
32.5°	1140.8	1139.3	1142.9	1147.4	1156.2
35°	1096.6	1095.4	1099.3	1103.5	1108.0
37.5°	1050.5	1049.6	1054.1	1058.6	1062.8
40°	1003.8	1002.6	1007.1	1011.7	1016.2
42.5°	956.0	955.4	959.6	964.1	968.9
45°	906.3	906.0	910.2	914.7	919.5
47.5°	855.7	855.1	859.3	864.1	868.3
50°	803.9	803.3	807.5	812.3	816.8
52.5°	750.6	750.6	754.5	758.7	765.7
55°	697.0	696.1	700.3	705.1	711.8
57.5°	642.8	641.6	645.5	650.3	656.4
60°	587.4	586.2	589.8	594.6	603.1
62.5°	531.4	529.6	533.2	537.7	542.9
65°	474.8	473.0	476.3	480.5	485.4
67.5°	417.9	415.8	419.1	422.7	427.2
70°	360.7	358.6	361.0	364.6	368.8
72.5°	303.8	301.7	303.8	305.3	310.4
75°	248.1	246.0	247.2	248.4	252.9
77.5°	193.9	191.8	194.2	194.8	197.5
80°	143.0	140.9	142.4	142.7	144.8
82.5°	96.6	94.8	97.0	95.4	97.3
85°	55.7	54.2	54.8	54.2	55.1
87.5°	22.0	20.8	21.1	19.9	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)