

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: P835643

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-2STD-35-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835643
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-LD4-2STD-35-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

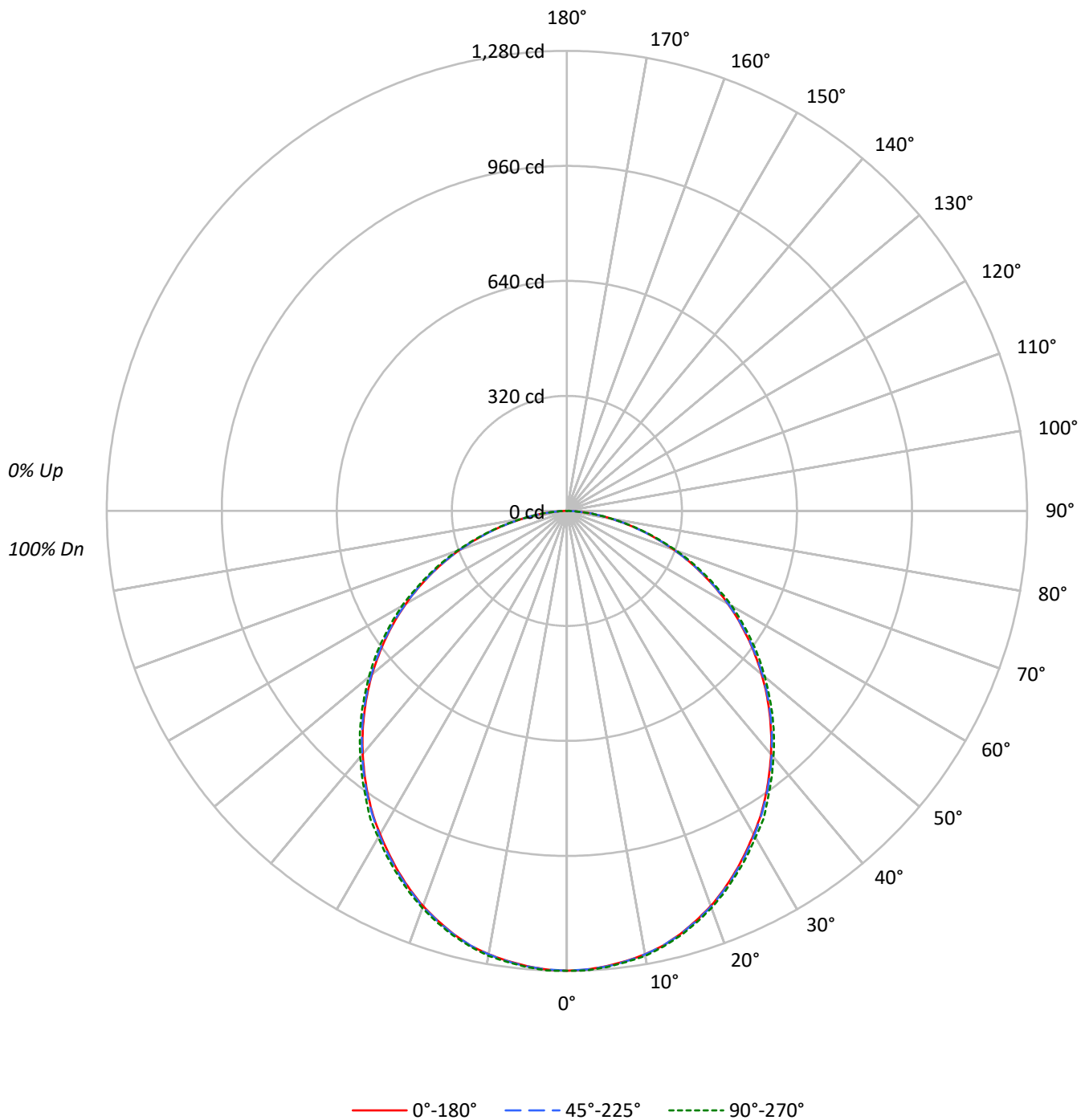
Lumens per Lamp: N/A
Luminaire Lumens: 3457.5 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	3443	3443	3443
5°	3434	3437	3441
10°	3423	3424	3434
15°	3395	3397	3407
20°	3351	3355	3367
25°	3290	3298	3313
30°	3228	3239	3259
35°	3169	3177	3203
40°	3103	3113	3141
45°	3035	3048	3079
50°	2961	2974	3009
55°	2877	2891	2938
60°	2782	2793	2856
65°	2660	2669	2719
70°	2497	2499	2553
75°	2270	2261	2313
80°	1949	1942	1974
85°	1513	1488	1497

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.9	3.5
10°-20°	343.9	9.9
20°-30°	512.0	14.8
30°-40°	605.5	17.5
40°-50°	618.1	17.9
50°-60°	551.7	16.0
60°-70°	415.5	12.0
70°-80°	231.7	6.7
80°-90°	58.1	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°	976.9	28.3
0°-40°	1582.4	45.8
0°-60°	2752.2	79.6
0°-90°	3457.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3457.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1280	1280	1280	1280	1280	
5°	1271	1274	1272	1273	1274	121
15°	1219	1220	1219	1220	1223	343
25°	1108	1110	1111	1114	1116	511
35°	965	964	967	971	975	603
45°	797	797	801	805	809	615
55°	613	612	616	620	626	548
65°	418	416	419	423	427	413
75°	218	216	218	219	222	231
85°	49	48	48	48	48	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1279.5	1279.5	1279.5	1279.5	1279.5
2.5°	1277.4	1279.5	1276.9	1277.4	1279.8
5°	1271.3	1273.7	1272.4	1272.7	1274.0
7.5°	1262.9	1266.0	1264.2	1264.7	1266.0
10°	1252.8	1255.2	1253.1	1254.4	1256.8
12.5°	1238.5	1239.5	1238.5	1239.0	1241.7
15°	1218.6	1219.9	1219.4	1220.5	1222.9
17.5°	1195.3	1196.9	1196.6	1198.7	1200.6
20°	1170.1	1170.4	1171.5	1173.6	1175.7
22.5°	1140.5	1141.3	1142.3	1145.2	1147.4
25°	1108.1	1109.5	1110.8	1113.7	1115.8
27.5°	1074.0	1075.3	1077.1	1080.3	1083.8
30°	1039.0	1039.0	1042.4	1045.6	1048.8
32.5°	1003.8	1002.4	1005.6	1009.6	1017.3
35°	964.8	963.8	967.2	970.9	974.9
37.5°	924.3	923.5	927.5	931.4	935.2
40°	883.2	882.2	886.1	890.1	894.1
42.5°	841.1	840.6	844.3	848.3	852.5
45°	797.4	797.1	800.8	804.8	809.1
47.5°	752.9	752.4	756.1	760.3	764.0
50°	707.3	706.8	710.5	714.7	718.7
52.5°	660.4	660.4	663.9	667.6	673.7
55°	613.3	612.5	616.2	620.4	626.3
57.5°	565.6	564.5	568.0	572.2	577.5
60°	516.9	515.8	519.0	523.2	530.6
62.5°	467.6	466.0	469.2	473.1	477.6
65°	417.8	416.2	419.1	422.8	427.0
67.5°	367.7	365.8	368.8	371.9	375.9
70°	317.4	315.5	317.6	320.8	324.5
72.5°	267.3	265.4	267.3	268.6	273.1
75°	218.3	216.4	217.5	218.6	222.5
77.5°	170.6	168.8	170.9	171.4	173.8
80°	125.8	124.0	125.3	125.6	127.4
82.5°	85.0	83.4	85.3	84.0	85.6
85°	49.0	47.7	48.2	47.7	48.5
87.5°	19.3	18.3	18.5	17.5	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)