

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: P835609

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

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835609
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-27-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

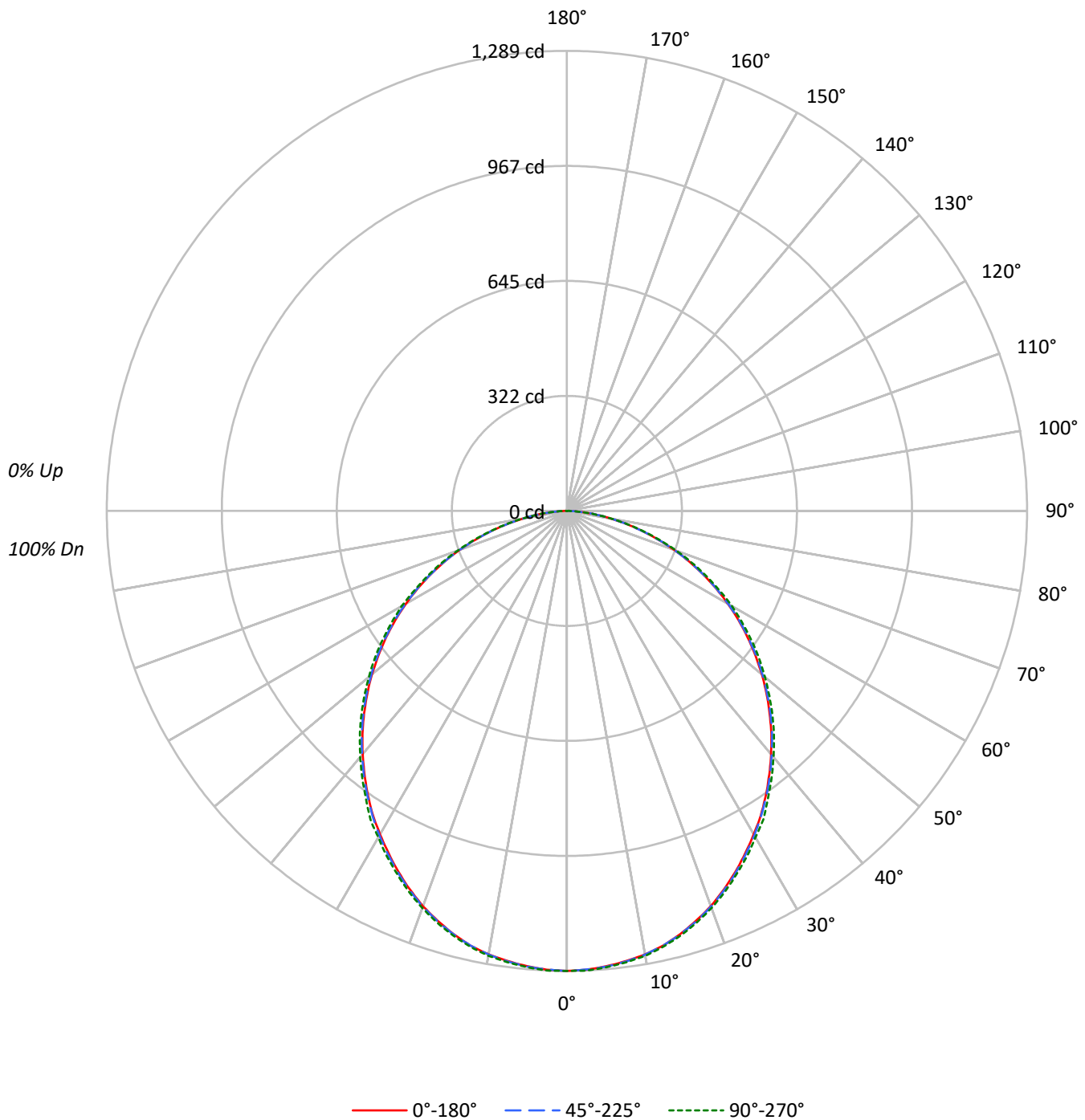
Lumens per Lamp: N/A
Luminaire Lumens: 3482.8 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

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°	3468	3468	3468
5°	3459	3462	3467
10°	3448	3449	3459
15°	3420	3422	3432
20°	3375	3379	3391
25°	3314	3322	3337
30°	3252	3263	3283
35°	3193	3201	3226
40°	3125	3136	3164
45°	3057	3070	3102
50°	2983	2996	3031
55°	2898	2912	2959
60°	2802	2814	2877
65°	2679	2688	2739
70°	2515	2518	2572
75°	2286	2278	2331
80°	1965	1956	1990
85°	1525	1501	1507

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.8	3.5
10°-20°	346.4	9.9
20°-30°	515.8	14.8
30°-40°	609.9	17.5
40°-50°	622.7	17.9
50°-60°	555.7	16.0
60°-70°	418.6	12.0
70°-80°	233.4	6.7
80°-90°	58.5	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°	984.0	28.3
0°-40°	1593.9	45.8
0°-60°	2772.3	79.6
0°-90°	3482.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3482.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1289	1289	1289	1289	1289	
5°	1281	1283	1282	1282	1283	122
15°	1228	1229	1228	1229	1232	346
25°	1116	1118	1119	1122	1124	514
35°	972	971	974	978	982	608
45°	803	803	807	811	815	620
55°	618	617	621	625	631	552
65°	421	419	422	426	430	416
75°	220	218	219	220	224	233
85°	49	48	49	48	49	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1288.9	1288.9	1288.9	1288.9	1288.9
2.5°	1286.8	1288.9	1286.2	1286.8	1289.2
5°	1280.6	1283.0	1281.7	1282.0	1283.3
7.5°	1272.1	1275.3	1273.4	1273.9	1275.3
10°	1261.9	1264.3	1262.2	1263.5	1265.9
12.5°	1247.5	1248.6	1247.5	1248.1	1250.7
15°	1227.5	1228.8	1228.3	1229.4	1231.8
17.5°	1204.0	1205.6	1205.4	1207.5	1209.4
20°	1178.7	1178.9	1180.0	1182.1	1184.3
22.5°	1148.8	1149.6	1150.7	1153.6	1155.7
25°	1116.2	1117.6	1118.9	1121.8	1124.0
27.5°	1081.8	1083.1	1085.0	1088.2	1091.7
30°	1046.6	1046.6	1050.1	1053.3	1056.5
32.5°	1011.1	1009.8	1013.0	1017.0	1024.7
35°	971.9	970.8	974.3	978.0	982.0
37.5°	931.0	930.2	934.2	938.2	942.0
40°	889.7	888.6	892.6	896.6	900.6
42.5°	847.3	846.7	850.5	854.5	858.7
45°	803.2	803.0	806.7	810.7	815.0
47.5°	758.4	757.9	761.6	765.9	769.6
50°	712.5	712.0	715.7	720.0	724.0
52.5°	665.3	665.3	668.7	672.5	678.6
55°	617.8	617.0	620.7	625.0	630.8
57.5°	569.7	568.7	572.1	576.4	581.7
60°	520.6	519.6	522.8	527.0	534.5
62.5°	471.0	469.4	472.6	476.6	481.1
65°	420.8	419.2	422.2	425.9	430.2
67.5°	370.4	368.5	371.5	374.7	378.7
70°	319.7	317.8	320.0	323.2	326.9
72.5°	269.3	267.4	269.3	270.6	275.1
75°	219.9	218.0	219.1	220.2	224.2
77.5°	171.9	170.0	172.1	172.7	175.1
80°	126.8	124.9	126.2	126.5	128.4
82.5°	85.7	84.1	85.9	84.6	86.2
85°	49.4	48.0	48.6	48.0	48.8
87.5°	19.5	18.4	18.7	17.6	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)