

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: P835679

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

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835679
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-50-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

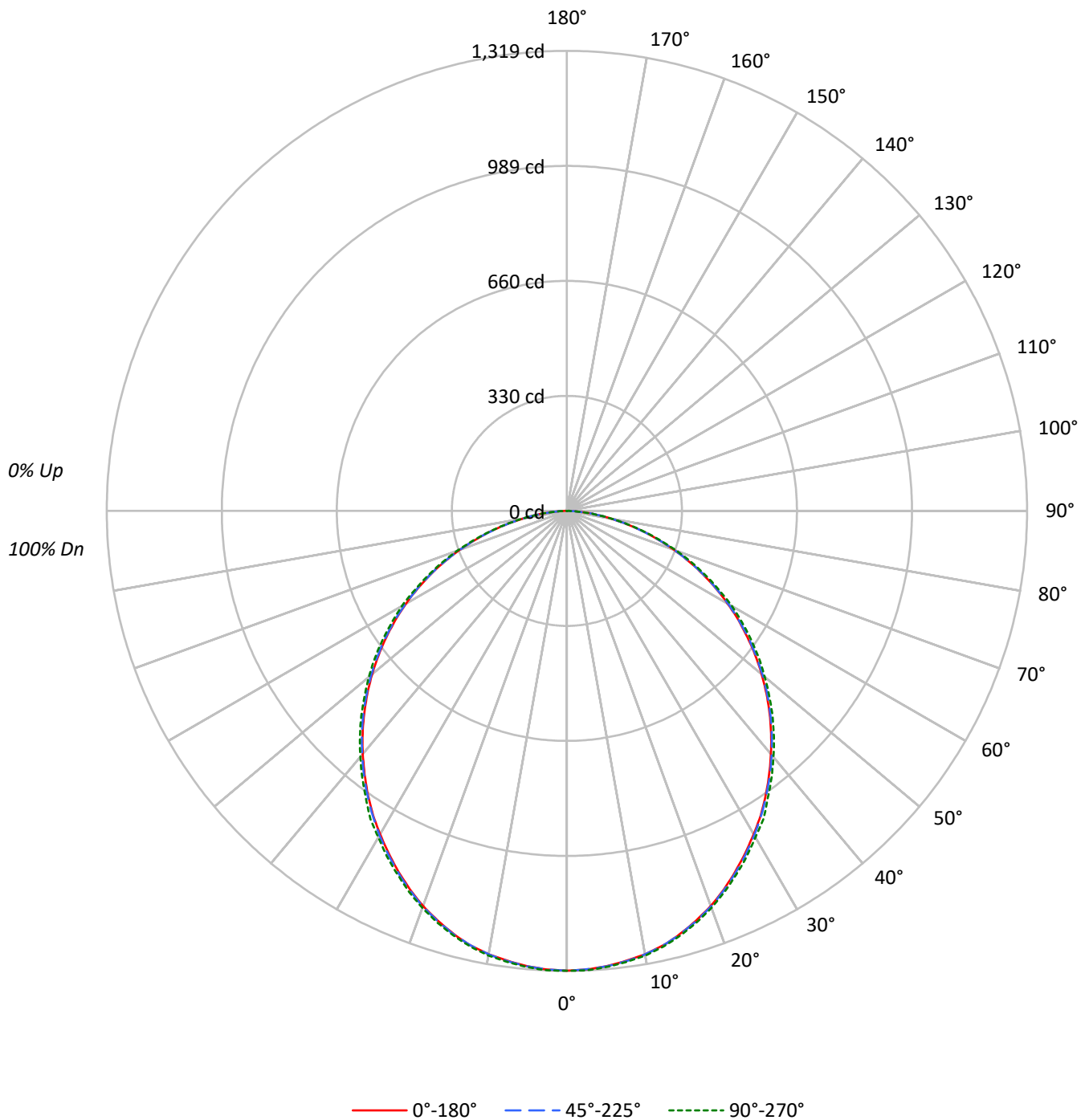
Lumens per Lamp: N/A
Luminaire Lumens: 3562.2 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	3548	3548	3548
5°	3538	3541	3546
10°	3527	3528	3538
15°	3498	3500	3510
20°	3452	3456	3469
25°	3390	3398	3413
30°	3326	3337	3358
35°	3266	3274	3300
40°	3197	3207	3236
45°	3127	3140	3172
50°	3051	3064	3100
55°	2965	2979	3027
60°	2866	2878	2942
65°	2741	2749	2802
70°	2573	2575	2631
75°	2338	2330	2384
80°	2008	2001	2035
85°	1559	1535	1541

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.6	3.5
10°-20°	354.4	9.9
20°-30°	527.5	14.8
30°-40°	623.9	17.5
40°-50°	636.9	17.9
50°-60°	568.4	16.0
60°-70°	428.1	12.0
70°-80°	238.8	6.7
80°-90°	59.8	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°	1006.5	28.3
0°-40°	1630.3	45.8
0°-60°	2835.6	79.6
0°-90°	3562.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3562.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1318	1318	1318	1318	1318	
5°	1310	1312	1311	1311	1313	124
15°	1256	1257	1256	1258	1260	354
25°	1142	1143	1144	1148	1150	526
35°	994	993	996	1000	1004	622
45°	822	821	825	829	834	634
55°	632	631	635	639	645	565
65°	430	429	432	436	440	426
75°	225	223	224	225	229	238
85°	50	49	50	49	50	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1318.3	1318.3	1318.3	1318.3	1318.3
2.5°	1316.1	1318.3	1315.6	1316.1	1318.6
5°	1309.9	1312.3	1310.9	1311.2	1312.6
7.5°	1301.1	1304.4	1302.5	1303.0	1304.4
10°	1290.8	1293.2	1291.0	1292.4	1294.8
12.5°	1276.0	1277.1	1276.0	1276.6	1279.3
15°	1255.5	1256.9	1256.4	1257.5	1259.9
17.5°	1231.5	1233.2	1232.9	1235.1	1237.0
20°	1205.6	1205.9	1207.0	1209.1	1211.3
22.5°	1175.0	1175.8	1176.9	1179.9	1182.1
25°	1141.7	1143.1	1144.5	1147.5	1149.6
27.5°	1106.5	1107.9	1109.8	1113.1	1116.6
30°	1070.5	1070.5	1074.0	1077.3	1080.6
32.5°	1034.2	1032.8	1036.1	1040.2	1048.1
35°	994.1	993.0	996.5	1000.3	1004.4
37.5°	952.3	951.5	955.6	959.7	963.5
40°	910.0	908.9	913.0	917.1	921.2
42.5°	866.6	866.0	869.9	874.0	878.3
45°	821.6	821.3	825.1	829.2	833.6
47.5°	775.7	775.2	779.0	783.3	787.2
50°	728.8	728.2	732.0	736.4	740.5
52.5°	680.4	680.4	684.0	687.8	694.1
55°	631.9	631.0	634.9	639.2	645.2
57.5°	582.7	581.6	585.2	589.6	595.0
60°	532.5	531.4	534.7	539.1	546.7
62.5°	481.7	480.1	483.4	487.5	492.1
65°	430.4	428.8	431.8	435.6	440.0
67.5°	378.8	376.9	379.9	383.2	387.3
70°	327.0	325.1	327.3	330.5	334.4
72.5°	275.4	273.5	275.4	276.8	281.4
75°	224.9	223.0	224.1	225.2	229.3
77.5°	175.8	173.9	176.0	176.6	179.1
80°	129.6	127.7	129.1	129.4	131.3
82.5°	87.6	86.0	87.9	86.5	88.2
85°	50.5	49.1	49.7	49.1	49.9
87.5°	19.9	18.8	19.1	18.0	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)