

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: P835016

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-3STD-40-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835016
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-4-INS-OPL-LD4-3STD-40-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

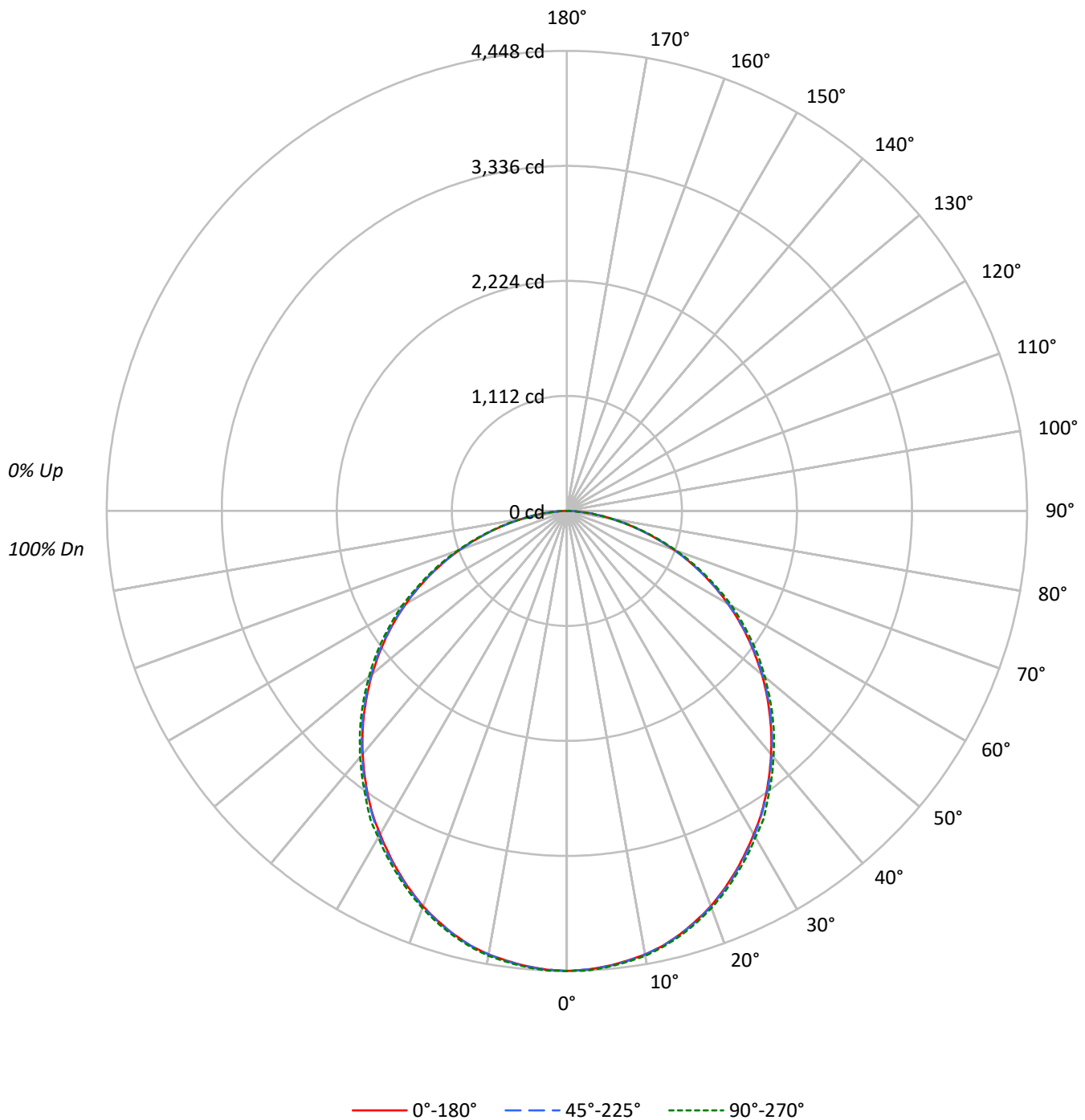
Lumens per Lamp: N/A
Luminaire Lumens: 12017.9 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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°	5984	5984	5984
5°	5969	5973	5981
10°	5949	5951	5968
15°	5900	5904	5921
20°	5824	5830	5851
25°	5718	5732	5758
30°	5611	5630	5664
35°	5509	5522	5566
40°	5392	5410	5459
45°	5274	5297	5351
50°	5146	5170	5229
55°	5001	5024	5106
60°	4834	4854	4963
65°	4623	4638	4726
70°	4340	4343	4437
75°	3945	3930	4021
80°	3389	3375	3432
85°	2631	2587	2601

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.3	3.5
10°-20°	1195.5	9.9
20°-30°	1779.7	14.8
30°-40°	2104.7	17.5
40°-50°	2148.6	17.9
50°-60°	1917.5	16.0
60°-70°	1444.3	12.0
70°-80°	805.4	6.7
80°-90°	201.8	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°	3395.5	28.3
0°-40°	5500.3	45.8
0°-60°	9566.4	79.6
0°-90°	12017.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12017.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4448	4448	4448	4448	4448	
5°	4419	4427	4423	4424	4428	420
15°	4236	4240	4239	4242	4250	1194
25°	3852	3856	3861	3871	3878	1774
35°	3354	3350	3362	3375	3389	2097
45°	2772	2771	2784	2798	2812	2138
55°	2132	2129	2142	2157	2177	1905
65°	1452	1447	1457	1470	1484	1436
75°	759	752	756	760	774	804
85°	170	166	168	166	168	205
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4447.6	4447.6	4447.6	4447.6	4447.6
2.5°	4440.2	4447.6	4438.4	4440.2	4448.5
5°	4419.1	4427.3	4422.7	4423.7	4428.3
7.5°	4389.6	4400.6	4394.2	4396.0	4400.6
10°	4354.6	4362.9	4355.5	4360.1	4368.4
12.5°	4304.9	4308.6	4304.9	4306.7	4315.9
15°	4235.8	4240.4	4238.6	4242.3	4250.5
17.5°	4154.8	4160.3	4159.4	4166.7	4173.2
20°	4067.3	4068.2	4071.9	4079.3	4086.6
22.5°	3964.2	3966.9	3970.6	3980.7	3988.1
25°	3851.8	3856.4	3861.0	3871.2	3878.5
27.5°	3733.0	3737.6	3744.1	3755.1	3767.1
30°	3611.5	3611.5	3623.5	3634.5	3645.6
32.5°	3489.0	3484.4	3495.5	3509.3	3536.0
35°	3353.7	3350.0	3361.9	3374.8	3388.6
37.5°	3212.8	3210.0	3223.8	3237.6	3250.5
40°	3070.0	3066.4	3080.2	3094.0	3107.8
42.5°	2923.6	2921.8	2934.7	2948.5	2963.2
45°	2771.7	2770.8	2783.7	2797.5	2812.2
47.5°	2617.0	2615.2	2628.0	2642.8	2655.7
50°	2458.6	2456.8	2469.7	2484.4	2498.2
52.5°	2295.6	2295.6	2307.6	2320.5	2341.7
55°	2131.7	2129.0	2141.8	2156.6	2176.8
57.5°	1966.0	1962.3	1974.3	1989.0	2007.4
60°	1796.5	1792.9	1803.9	1818.6	1844.4
62.5°	1625.3	1619.7	1630.8	1644.6	1660.3
65°	1452.1	1446.6	1456.7	1469.6	1484.4
67.5°	1278.1	1271.7	1281.8	1292.8	1306.7
70°	1103.2	1096.7	1104.1	1115.1	1128.0
72.5°	929.1	922.7	929.1	933.7	949.4
75°	758.8	752.3	756.0	759.7	773.5
77.5°	593.0	586.6	593.9	595.8	604.1
80°	437.4	430.9	435.6	436.5	442.9
82.5°	295.6	290.1	296.5	291.9	297.4
85°	170.4	165.7	167.6	165.7	168.5
87.5°	67.2	63.5	64.5	60.8	60.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)