

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: P835034

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-3STD-50-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835034
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-50-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

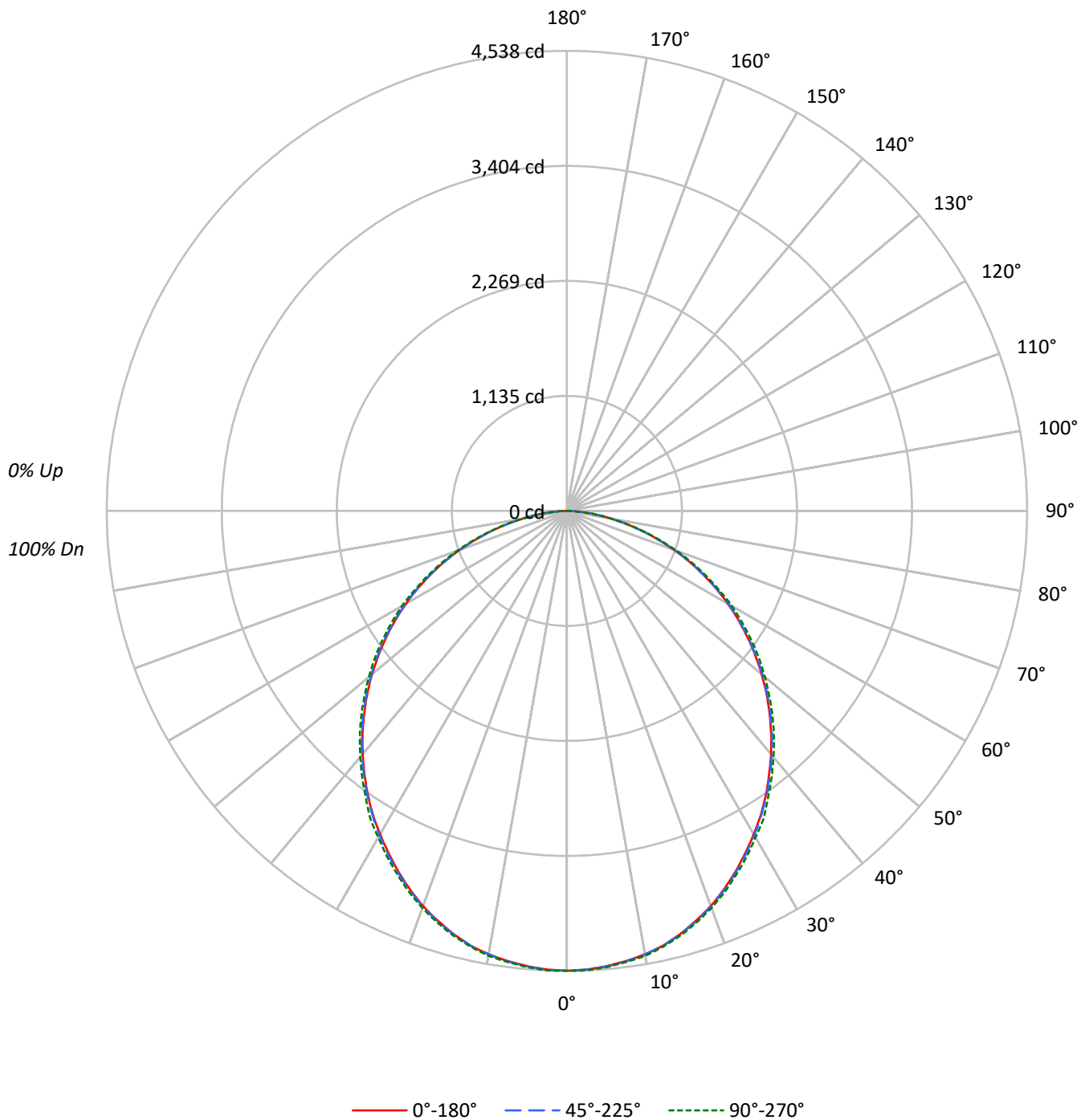
Lumens per Lamp: N/A
Luminaire Lumens: 12258.3 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10		0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102		100
1	109	104	100	96	106	102	98	95	98	94	92		94	91	89		90	88	86		84
2	99	91	84	78	96	89	83	77	85	80	76		82	78	74		79	76	72		70
3	90	80	72	65	88	78	71	65	75	69	64		73	67	62		70	65	61		59
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62	57	53		51
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		56	51	46		44
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51	45	40		38
7	65	52	43	37	64	51	43	37	49	42	36		48	41	36		47	41	36		34
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		43	37	32		30
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		40	34	29		27
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	26		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6104	6104	6104
5°	6088	6093	6101
10°	6068	6070	6088
15°	6018	6022	6039
20°	5940	5947	5968
25°	5833	5847	5873
30°	5723	5742	5777
35°	5619	5633	5677
40°	5500	5518	5568
45°	5379	5403	5458
50°	5249	5273	5334
55°	5101	5125	5209
60°	4931	4951	5063
65°	4716	4731	4820
70°	4426	4430	4526
75°	4023	4009	4102
80°	3457	3443	3501
85°	2683	2638	2654

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.7	3.5
10°-20°	1219.4	9.9
20°-30°	1815.3	14.8
30°-40°	2146.8	17.5
40°-50°	2191.6	17.9
50°-60°	1955.9	16.0
60°-70°	1473.2	12.0
70°-80°	821.6	6.7
80°-90°	205.8	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°	3463.5	28.3
0°-40°	5610.3	45.8
0°-60°	9757.7	79.6
0°-90°	12258.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12258.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4536	4536	4536	4536	4536	
5°	4507	4516	4511	4512	4517	428
15°	4320	4325	4323	4327	4336	1218
25°	3929	3934	3938	3949	3956	1810
35°	3421	3417	3429	3442	3456	2139
45°	2827	2826	2839	2853	2868	2181
55°	2174	2172	2185	2200	2220	1944
65°	1481	1476	1486	1499	1514	1465
75°	774	767	771	775	789	820
85°	174	169	171	169	172	209
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4536.5	4536.5	4536.5	4536.5	4536.5
2.5°	4529.0	4536.5	4527.2	4529.0	4537.5
5°	4507.4	4515.9	4511.2	4512.1	4516.8
7.5°	4477.4	4488.6	4482.1	4484.0	4488.6
10°	4441.7	4450.1	4442.6	4447.3	4455.8
12.5°	4391.0	4394.7	4391.0	4392.8	4402.2
15°	4320.5	4325.2	4323.3	4327.1	4335.6
17.5°	4237.9	4243.5	4242.6	4250.1	4256.7
20°	4148.6	4149.6	4153.3	4160.9	4168.4
22.5°	4043.4	4046.3	4050.0	4060.4	4067.9
25°	3928.9	3933.6	3938.3	3948.6	3956.1
27.5°	3807.7	3812.4	3819.0	3830.2	3842.4
30°	3683.7	3683.7	3695.9	3707.2	3718.5
32.5°	3558.8	3554.1	3565.4	3579.5	3606.7
35°	3420.7	3417.0	3429.2	3442.3	3456.4
37.5°	3277.0	3274.2	3288.3	3302.4	3315.5
40°	3131.4	3127.7	3141.8	3155.9	3169.9
42.5°	2982.1	2980.2	2993.4	3007.5	3022.5
45°	2827.1	2826.2	2839.3	2853.4	2868.5
47.5°	2669.3	2667.5	2680.6	2695.6	2708.8
50°	2507.8	2505.9	2519.1	2534.1	2548.2
52.5°	2341.5	2341.5	2353.7	2366.9	2388.5
55°	2174.4	2171.5	2184.7	2199.7	2220.4
57.5°	2005.3	2001.5	2013.7	2028.8	2047.6
60°	1832.5	1828.7	1840.0	1855.0	1881.3
62.5°	1657.8	1652.1	1663.4	1677.5	1693.5
65°	1481.2	1475.6	1485.9	1499.0	1514.1
67.5°	1303.7	1297.1	1307.4	1318.7	1332.8
70°	1125.2	1118.6	1126.2	1137.4	1150.6
72.5°	947.7	941.1	947.7	952.4	968.4
75°	773.9	767.4	771.1	774.9	789.0
77.5°	604.9	598.3	605.8	607.7	616.1
80°	446.1	439.6	444.3	445.2	451.8
82.5°	301.5	295.9	302.4	297.7	303.4
85°	173.8	169.1	170.9	169.1	171.9
87.5°	68.6	64.8	65.7	62.0	62.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)