

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: P835133

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-6STD-40-120-EDD-90**

Issue Date: 5/16/2024

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

**Test Information**

Test Method: LM-79-08
Report Number: P835133
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-LD4-6STD-40-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

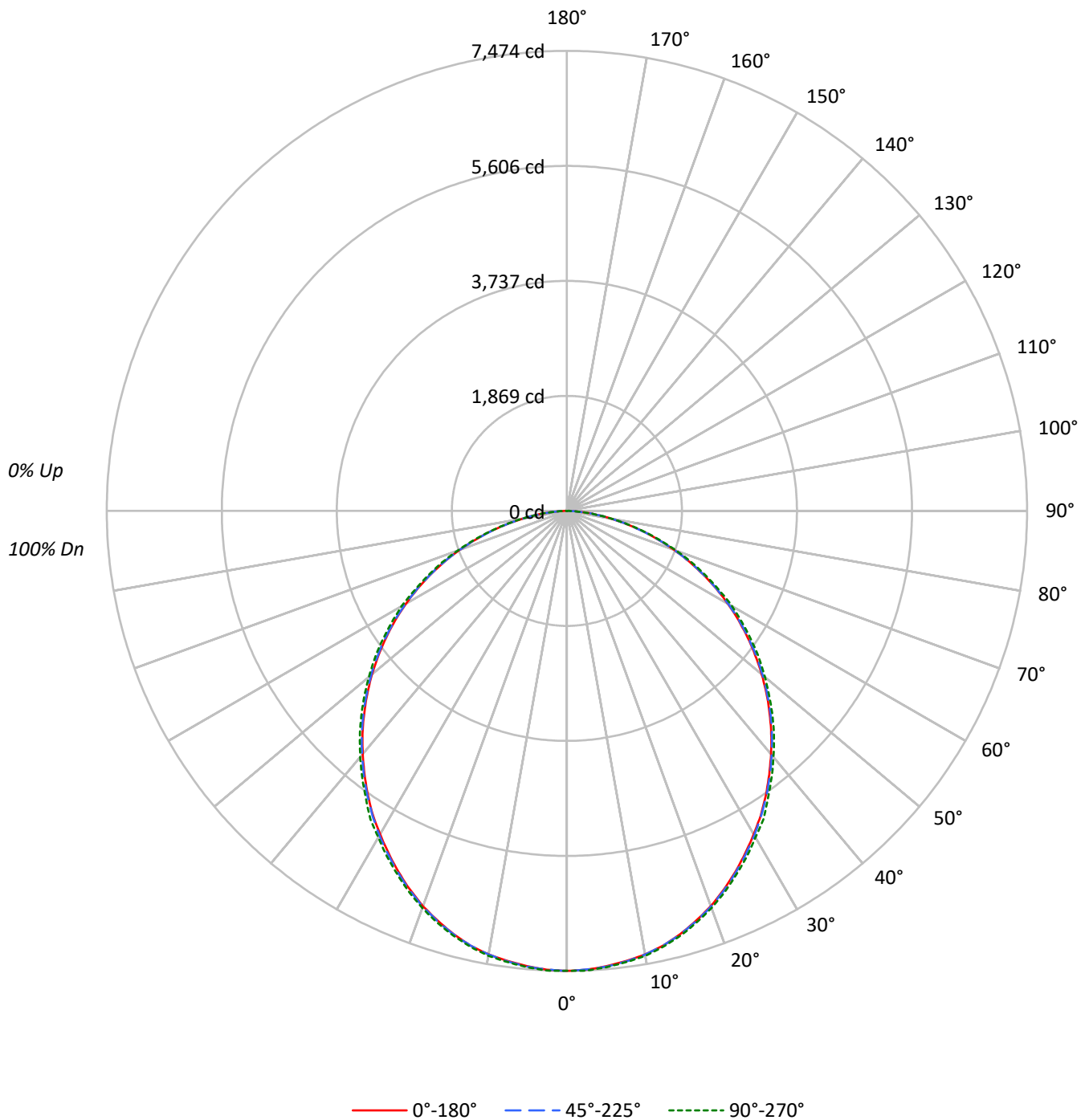
Lumens per Lamp: N/A
Luminaire Lumens: 20191.7 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 199.8
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



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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°	10054	10054	10054
5°	10028	10036	10049
10°	9996	9998	10028
15°	9913	9920	9948
20°	9785	9796	9831
25°	9608	9630	9674
30°	9427	9458	9516
35°	9255	9278	9352
40°	9060	9090	9171
45°	8861	8899	8991
50°	8647	8686	8786
55°	8402	8442	8579
60°	8122	8156	8339
65°	7768	7792	7940
70°	7291	7297	7456
75°	6627	6603	6756
80°	5694	5670	5766
85°	4418	4347	4370

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	706.1	3.5
10°-20°	2008.6	9.9
20°-30°	2990.2	14.8
30°-40°	3536.2	17.5
40°-50°	3610.0	17.9
50°-60°	3221.7	16.0
60°-70°	2426.6	12.0
70°-80°	1353.2	6.7
80°-90°	339.0	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°	5705.0	28.3
0°-40°	9241.2	45.8
0°-60°	16072.8	79.6
0°-90°	20191.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20191.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7473	7473	7473	7473	7473	
5°	7425	7438	7431	7432	7440	705
15°	7117	7124	7121	7128	7142	2006
25°	6472	6479	6487	6504	6516	2981
35°	5635	5628	5648	5670	5693	3524
45°	4657	4655	4677	4700	4725	3592
55°	3582	3577	3599	3623	3657	3201
65°	2440	2430	2448	2469	2494	2413
75°	1275	1264	1270	1276	1300	1351
85°	286	278	282	278	283	344
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7472.6	7472.6	7472.6	7472.6	7472.6
2.5°	7460.2	7472.6	7457.1	7460.2	7474.1
5°	7424.6	7438.5	7430.8	7432.3	7440.1
7.5°	7375.1	7393.7	7382.8	7385.9	7393.7
10°	7316.3	7330.2	7317.8	7325.6	7339.5
12.5°	7232.8	7238.9	7232.8	7235.8	7251.3
15°	7116.7	7124.5	7121.4	7127.6	7141.5
17.5°	6980.6	6989.9	6988.3	7000.7	7011.5
20°	6833.6	6835.1	6841.3	6853.7	6866.1
22.5°	6660.3	6665.0	6671.2	6688.2	6700.5
25°	6471.6	6479.3	6487.0	6504.1	6516.4
27.5°	6272.0	6279.7	6290.6	6309.1	6329.2
30°	6067.8	6067.8	6087.9	6106.5	6125.0
32.5°	5862.0	5854.3	5872.8	5896.0	5940.9
35°	5634.6	5628.4	5648.5	5670.2	5693.4
37.5°	5397.9	5393.2	5416.4	5439.6	5461.3
40°	5158.1	5151.9	5175.1	5198.3	5221.5
42.5°	4912.1	4909.0	4930.6	4953.9	4978.6
45°	4656.8	4655.3	4676.9	4700.1	4724.9
47.5°	4396.9	4393.8	4415.5	4440.2	4461.9
50°	4130.8	4127.7	4149.4	4174.1	4197.3
52.5°	3857.0	3857.0	3877.1	3898.7	3934.3
55°	3581.6	3576.9	3598.6	3623.3	3657.4
57.5°	3303.1	3296.9	3317.0	3341.8	3372.7
60°	3018.4	3012.2	3030.8	3055.5	3098.9
62.5°	2730.7	2721.4	2739.9	2763.1	2789.4
65°	2439.8	2430.5	2447.5	2469.2	2493.9
67.5°	2147.4	2136.6	2153.6	2172.1	2195.4
70°	1853.4	1842.6	1855.0	1873.6	1895.2
72.5°	1561.0	1550.2	1561.0	1568.8	1595.1
75°	1274.8	1264.0	1270.2	1276.4	1299.6
77.5°	996.3	985.5	997.9	1001.0	1014.9
80°	734.9	724.0	731.8	733.3	744.2
82.5°	496.6	487.3	498.2	490.4	499.7
85°	286.2	278.5	281.6	278.5	283.1
87.5°	112.9	106.8	108.3	102.1	102.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)