

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: P835132

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

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835132
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-LD4-6LO-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

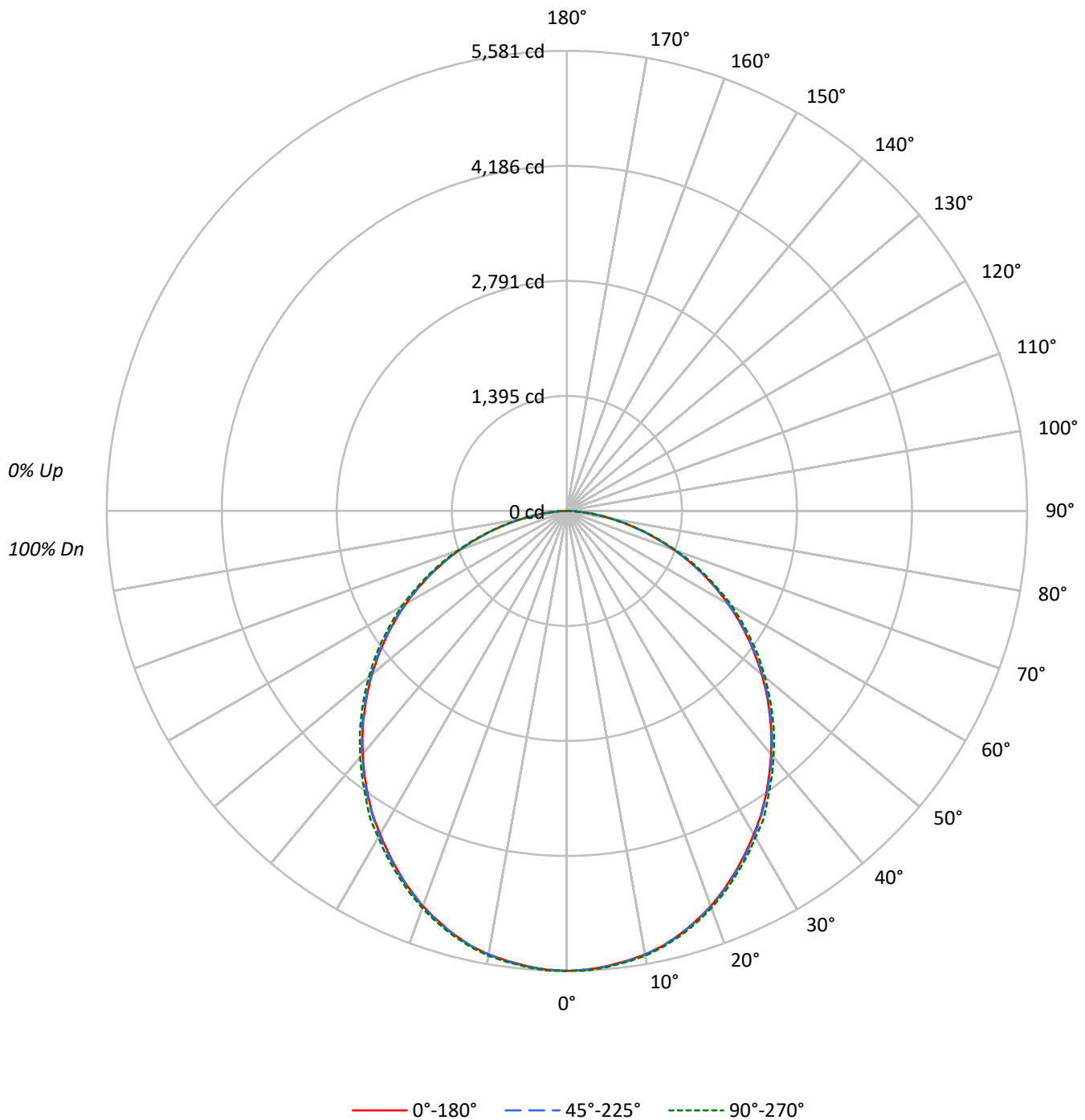
Lumens per Lamp: N/A
Luminaire Lumens: 15077.6 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 140.4
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
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	86	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	46	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	40	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	36	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	32	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7508	7508	7508
5°	7488	7494	7504
10°	7464	7466	7488
15°	7402	7407	7428
20°	7306	7315	7341
25°	7174	7191	7224
30°	7039	7063	7106
35°	6911	6928	6983
40°	6765	6787	6848
45°	6617	6645	6713
50°	6457	6486	6561
55°	6274	6303	6406
60°	6065	6090	6227
65°	5800	5819	5929
70°	5445	5449	5567
75°	4949	4931	5045
80°	4252	4234	4306
85°	3299	3247	3264

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	527.3	3.5
10°-20°	1499.9	9.9
20°-30°	2232.9	14.8
30°-40°	2640.6	17.5
40°-50°	2695.7	17.9
50°-60°	2405.7	16.0
60°-70°	1812.0	12.0
70°-80°	1010.5	6.7
80°-90°	253.2	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°	4260.0	28.3
0°-40°	6900.6	45.8
0°-60°	12002.0	79.6
0°-90°	15077.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15077.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5580	5580	5580	5580	5580	
5°	5544	5554	5549	5550	5556	527
15°	5314	5320	5318	5322	5333	1498
25°	4832	4838	4844	4857	4866	2226
35°	4208	4203	4218	4234	4251	2631
45°	3477	3476	3492	3510	3528	2682
55°	2674	2671	2687	2706	2731	2391
65°	1822	1815	1828	1844	1862	1802
75°	952	944	948	953	970	1009
85°	214	208	210	208	211	257
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5579.9	5579.9	5579.9	5579.9	5579.9
2.5°	5570.7	5579.9	5568.4	5570.7	5581.1
5°	5544.1	5554.5	5548.7	5549.9	5555.7
7.5°	5507.1	5521.0	5512.9	5515.2	5521.0
10°	5463.2	5473.6	5464.4	5470.2	5480.6
12.5°	5400.9	5405.5	5400.9	5403.2	5414.7
15°	5314.2	5320.0	5317.7	5322.3	5332.7
17.5°	5212.6	5219.5	5218.3	5227.6	5235.7
20°	5102.8	5104.0	5108.6	5117.8	5127.1
22.5°	4973.4	4976.9	4981.5	4994.2	5003.4
25°	4832.5	4838.2	4844.0	4856.7	4866.0
27.5°	4683.4	4689.2	4697.3	4711.2	4726.2
30°	4530.9	4530.9	4546.0	4559.8	4573.7
32.5°	4377.3	4371.5	4385.4	4402.7	4436.2
35°	4207.5	4202.9	4217.9	4234.0	4251.4
37.5°	4030.7	4027.2	4044.6	4061.9	4078.1
40°	3851.6	3847.0	3864.4	3881.7	3899.0
42.5°	3668.0	3665.7	3681.8	3699.2	3717.6
45°	3477.3	3476.2	3492.4	3509.7	3528.2
47.5°	3283.3	3280.9	3297.1	3315.6	3331.8
50°	3084.6	3082.2	3098.4	3116.9	3134.2
52.5°	2880.1	2880.1	2895.1	2911.3	2937.8
55°	2674.4	2671.0	2687.1	2705.6	2731.0
57.5°	2466.5	2461.9	2476.9	2495.4	2518.5
60°	2253.9	2249.3	2263.2	2281.6	2314.0
62.5°	2039.0	2032.1	2046.0	2063.3	2082.9
65°	1821.9	1814.9	1827.6	1843.8	1862.3
67.5°	1603.5	1595.4	1608.1	1622.0	1639.3
70°	1384.0	1375.9	1385.2	1399.0	1415.2
72.5°	1165.7	1157.6	1165.7	1171.4	1191.1
75°	951.9	943.9	948.5	953.1	970.4
77.5°	744.0	735.9	745.1	747.5	757.9
80°	548.8	540.7	546.4	547.6	555.7
82.5°	370.8	363.9	372.0	366.2	373.2
85°	213.7	207.9	210.3	207.9	211.4
87.5°	84.3	79.7	80.9	76.2	76.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)