

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: P835006

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-6LO-35-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835006
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-35-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

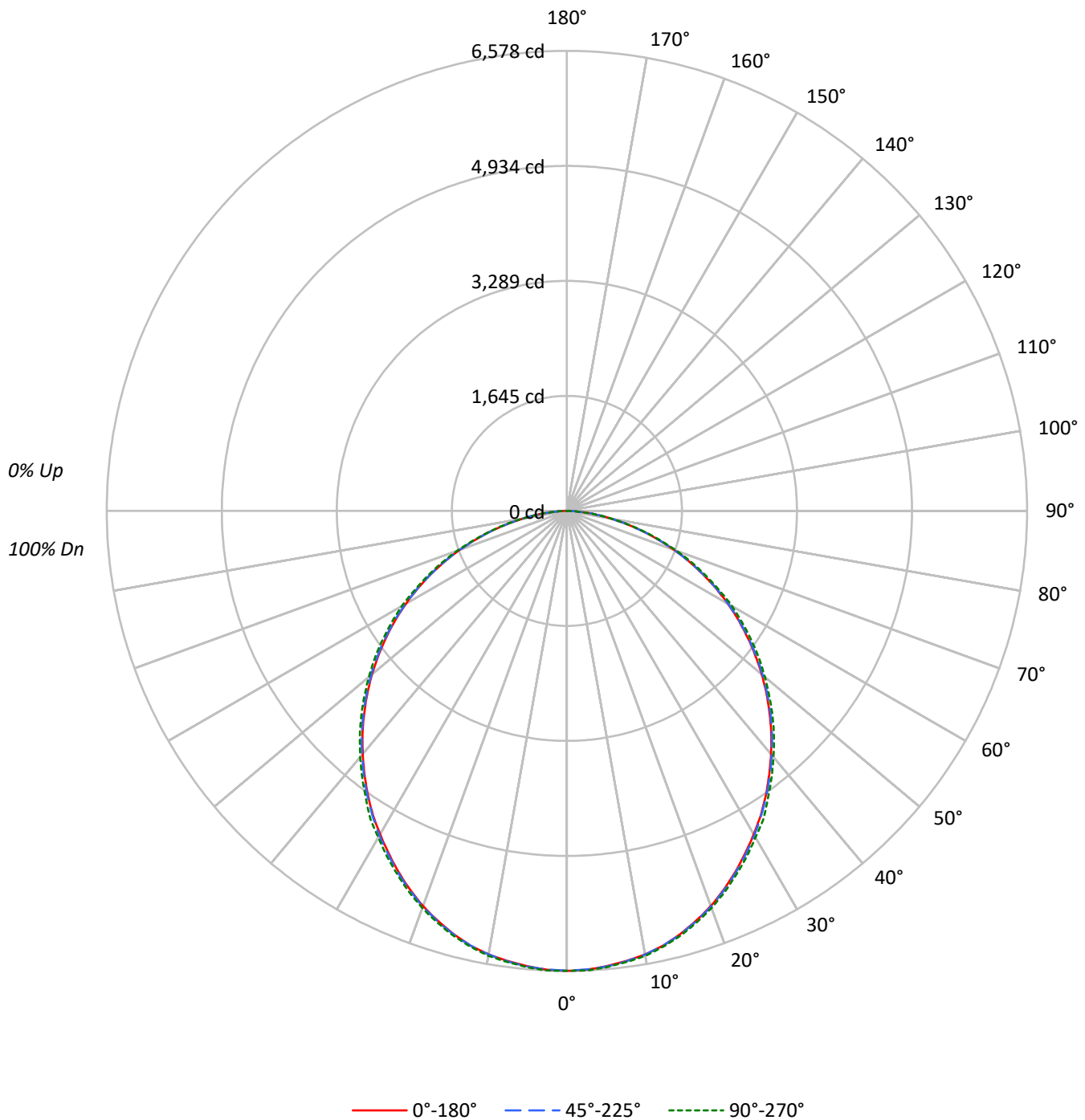
Lumens per Lamp: N/A
Luminaire Lumens: 17770.0 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	8848	8848	8848
5°	8825	8833	8844
10°	8797	8799	8825
15°	8724	8730	8755
20°	8611	8621	8652
25°	8455	8475	8514
30°	8296	8324	8375
35°	8145	8165	8230
40°	7973	7999	8071
45°	7798	7832	7912
50°	7610	7644	7732
55°	7394	7429	7550
60°	7148	7178	7339
65°	6836	6858	6988
70°	6417	6422	6561
75°	5832	5811	5946
80°	5011	4990	5074
85°	3889	3825	3847

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	621.4	3.5
10°-20°	1767.7	9.9
20°-30°	2631.6	14.8
30°-40°	3112.1	17.5
40°-50°	3177.0	17.9
50°-60°	2835.3	16.0
60°-70°	2135.5	12.0
70°-80°	1190.9	6.7
80°-90°	298.4	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°	5020.7	28.3
0°-40°	8132.8	45.8
0°-60°	14145.1	79.6
0°-90°	17770.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17770.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6576	6576	6576	6576	6576	
5°	6534	6546	6540	6541	6548	621
15°	6263	6270	6267	6273	6285	1765
25°	5695	5702	5709	5724	5735	2624
35°	4959	4953	4971	4990	5010	3101
45°	4098	4097	4116	4136	4158	3161
55°	3152	3148	3167	3189	3219	2818
65°	2147	2139	2154	2173	2195	2124
75°	1122	1112	1118	1123	1144	1189
85°	252	245	248	245	249	302
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6576.3	6576.3	6576.3	6576.3	6576.3
2.5°	6565.4	6576.3	6562.7	6565.4	6577.7
5°	6534.1	6546.4	6539.6	6540.9	6547.7
7.5°	6490.6	6506.9	6497.4	6500.1	6506.9
10°	6438.8	6451.1	6440.2	6447.0	6459.2
12.5°	6365.3	6370.7	6365.3	6368.0	6381.6
15°	6263.2	6270.0	6267.3	6272.7	6285.0
17.5°	6143.4	6151.5	6150.2	6161.1	6170.6
20°	6014.0	6015.4	6020.8	6031.7	6042.6
22.5°	5861.5	5865.6	5871.1	5886.0	5896.9
25°	5695.4	5702.2	5709.0	5724.0	5734.9
27.5°	5519.8	5526.6	5536.1	5552.4	5570.1
30°	5340.0	5340.0	5357.7	5374.1	5390.4
32.5°	5159.0	5152.1	5168.5	5188.9	5228.4
35°	4958.8	4953.4	4971.1	4990.1	5010.5
37.5°	4750.5	4746.4	4766.8	4787.2	4806.3
40°	4539.4	4534.0	4554.4	4574.8	4595.3
42.5°	4323.0	4320.2	4339.3	4359.7	4381.5
45°	4098.3	4096.9	4116.0	4136.4	4158.2
47.5°	3869.6	3866.8	3885.9	3907.7	3926.7
50°	3635.4	3632.6	3651.7	3673.5	3693.9
52.5°	3394.4	3394.4	3412.1	3431.1	3462.4
55°	3152.0	3147.9	3167.0	3188.8	3218.7
57.5°	2906.9	2901.5	2919.2	2941.0	2968.2
60°	2656.4	2651.0	2667.3	2689.1	2727.2
62.5°	2403.2	2395.0	2411.3	2431.7	2454.9
65°	2147.2	2139.0	2154.0	2173.1	2194.8
67.5°	1889.8	1880.3	1895.3	1911.6	1932.1
70°	1631.2	1621.6	1632.5	1648.9	1667.9
72.5°	1373.8	1364.3	1373.8	1380.6	1403.8
75°	1121.9	1112.4	1117.8	1123.3	1143.7
77.5°	876.8	867.3	878.2	880.9	893.2
80°	646.7	637.2	644.0	645.4	654.9
82.5°	437.1	428.9	438.4	431.6	439.8
85°	251.9	245.1	247.8	245.1	249.2
87.5°	99.4	93.9	95.3	89.9	89.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)