

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: P835782

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-6HI-40-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835782
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-2-INS-OPL-LD4-6HI-40-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

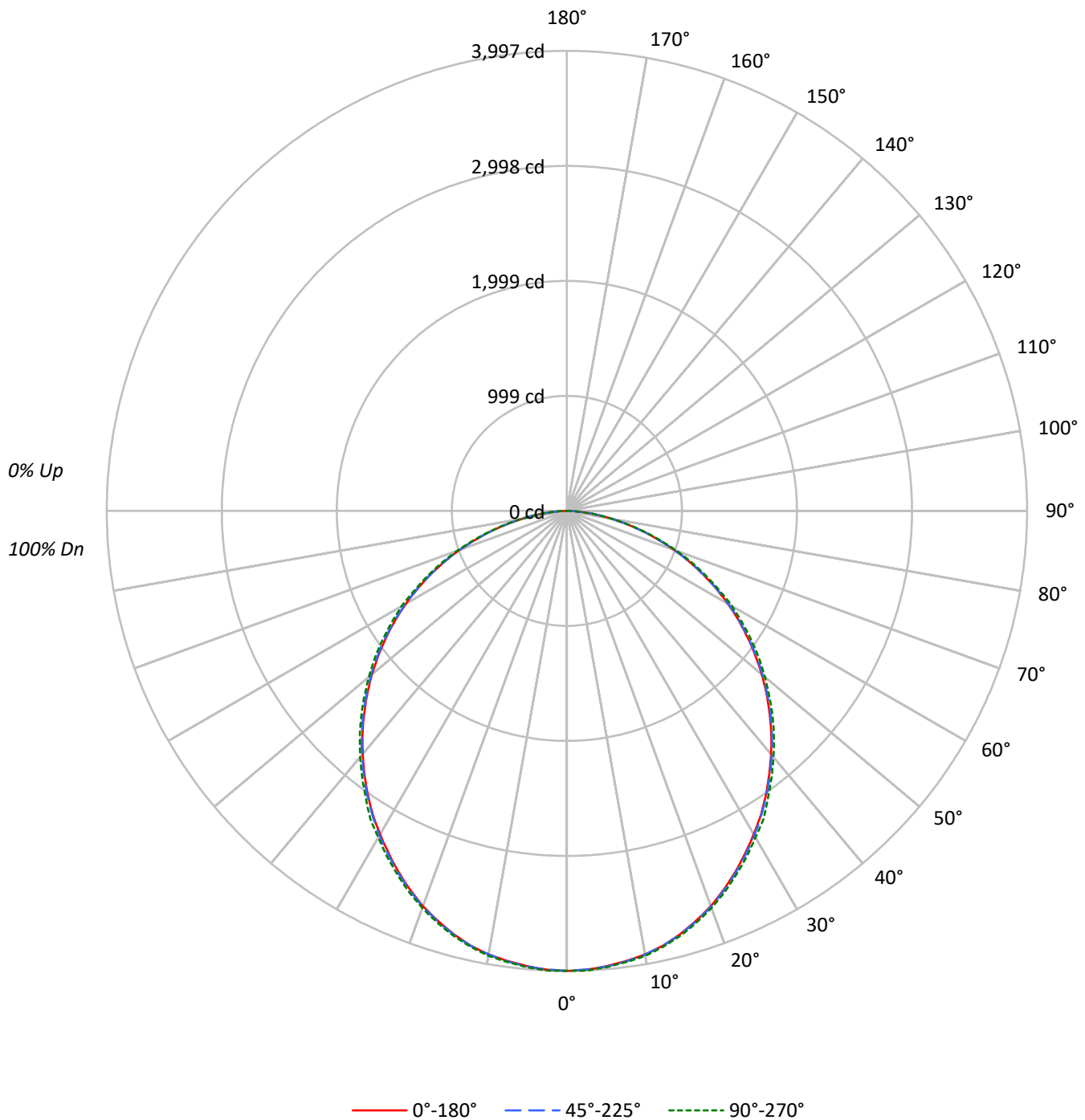
Lumens per Lamp: N/A
Luminaire Lumens: 10797.8 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 132
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°	10753	10753	10753
5°	10725	10734	10747
10°	10691	10693	10725
15°	10603	10609	10639
20°	10465	10477	10515
25°	10276	10300	10347
30°	10082	10116	10178
35°	9899	9923	10002
40°	9690	9722	9809
45°	9477	9518	9616
50°	9248	9289	9397
55°	8986	9028	9176
60°	8687	8723	8919
65°	8308	8334	8492
70°	7799	7805	7974
75°	7088	7062	7226
80°	6090	6064	6168
85°	4727	4650	4675

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.6	3.5
10°-20°	1074.1	9.9
20°-30°	1599.1	14.8
30°-40°	1891.0	17.5
40°-50°	1930.5	17.9
50°-60°	1722.9	16.0
60°-70°	1297.7	12.0
70°-80°	723.7	6.7
80°-90°	181.3	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°	3050.8	28.3
0°-40°	4941.8	45.8
0°-60°	8595.2	79.6
0°-90°	10797.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10797.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3996	3996	3996	3996	3996	
5°	3970	3978	3974	3974	3979	377
15°	3806	3810	3808	3812	3819	1073
25°	3461	3465	3469	3478	3485	1594
35°	3013	3010	3021	3032	3045	1884
45°	2490	2490	2501	2514	2527	1921
55°	1915	1913	1924	1938	1956	1712
65°	1305	1300	1309	1320	1334	1290
75°	682	676	679	683	695	723
85°	153	149	151	149	151	184
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3996.1	3996.1	3996.1	3996.1	3996.1
2.5°	3989.4	3996.1	3987.8	3989.4	3996.9
5°	3970.4	3977.8	3973.7	3974.5	3978.7
7.5°	3943.9	3953.9	3948.1	3949.7	3953.9
10°	3912.5	3919.9	3913.3	3917.5	3924.9
12.5°	3867.8	3871.1	3867.8	3869.5	3877.7
15°	3805.8	3809.9	3808.2	3811.6	3819.0
17.5°	3733.0	3737.9	3737.1	3743.7	3749.5
20°	3654.4	3655.2	3658.5	3665.1	3671.7
22.5°	3561.7	3564.2	3567.5	3576.6	3583.2
25°	3460.8	3464.9	3469.0	3478.1	3484.8
27.5°	3354.0	3358.2	3364.0	3373.9	3384.6
30°	3244.8	3244.8	3255.6	3265.5	3275.4
32.5°	3134.8	3130.7	3140.6	3153.0	3177.0
35°	3013.2	3009.9	3020.6	3032.2	3044.6
37.5°	2886.6	2884.1	2896.5	2908.9	2920.5
40°	2758.4	2755.0	2767.5	2779.9	2792.3
42.5°	2626.8	2625.1	2636.7	2649.1	2662.4
45°	2490.3	2489.5	2501.0	2513.5	2526.7
47.5°	2351.3	2349.6	2361.2	2374.5	2386.0
50°	2209.0	2207.3	2218.9	2232.2	2244.6
52.5°	2062.6	2062.6	2073.3	2084.9	2103.9
55°	1915.3	1912.8	1924.4	1937.6	1955.8
57.5°	1766.4	1763.1	1773.8	1787.1	1803.6
60°	1614.1	1610.8	1620.8	1634.0	1657.2
62.5°	1460.3	1455.3	1465.2	1477.6	1491.7
65°	1304.7	1299.8	1308.9	1320.4	1333.7
67.5°	1148.3	1142.6	1151.7	1161.6	1174.0
70°	991.2	985.4	992.0	1001.9	1013.5
72.5°	834.8	829.0	834.8	838.9	853.0
75°	681.7	675.9	679.2	682.6	695.0
77.5°	532.8	527.0	533.6	535.3	542.7
80°	393.0	387.2	391.3	392.2	398.0
82.5°	265.6	260.6	266.4	262.3	267.2
85°	153.1	148.9	150.6	148.9	151.4
87.5°	60.4	57.1	57.9	54.6	54.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)