

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: P835761

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-5HI-35-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835761
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-LD4-5HI-35-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

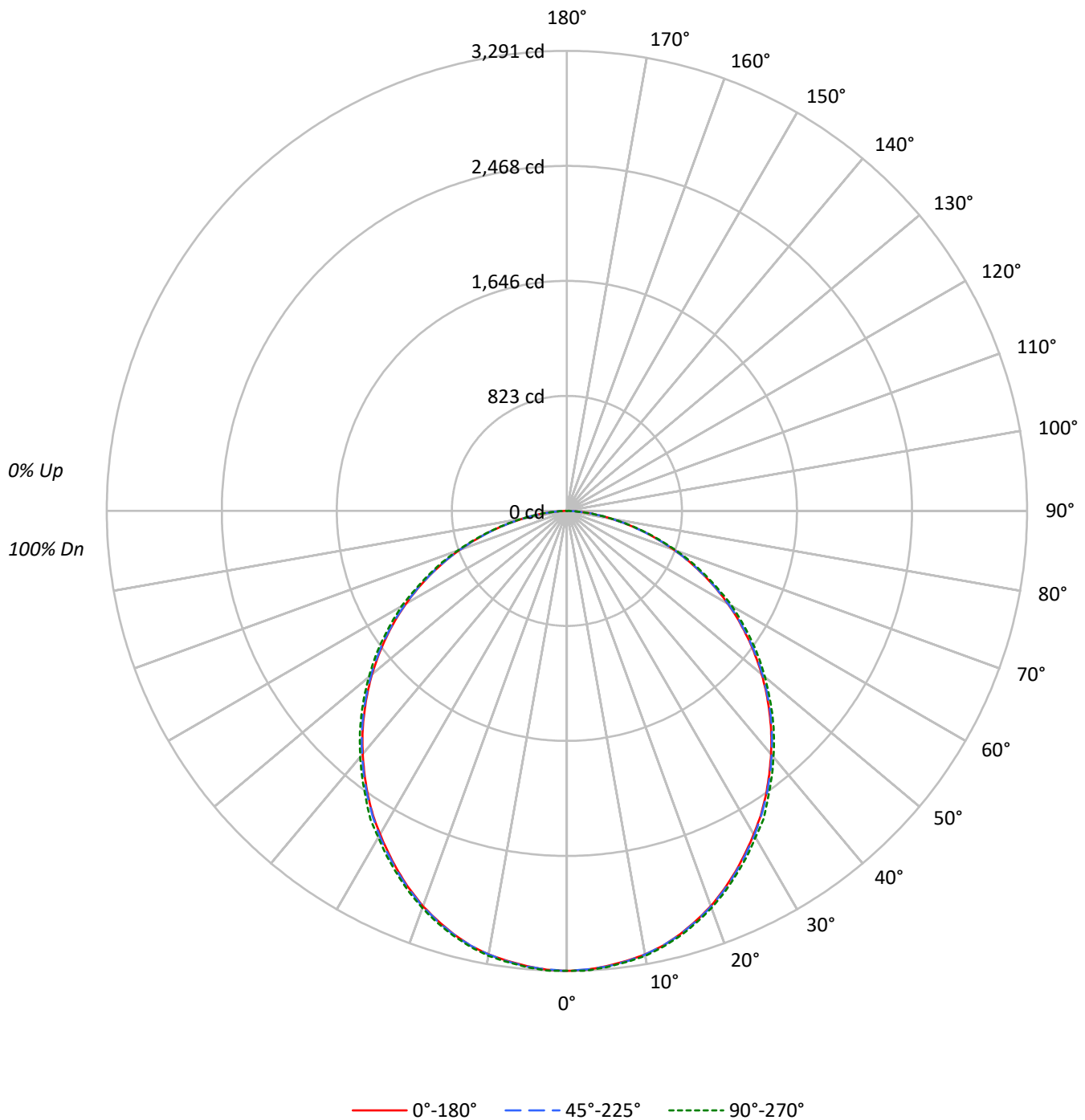
Lumens per Lamp: N/A
Luminaire Lumens: 8890.7 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 110
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

1121 Highway 74 South

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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°	8854	8854	8854
5°	8831	8838	8849
10°	8803	8805	8831
15°	8730	8736	8760
20°	8617	8627	8658
25°	8461	8481	8519
30°	8302	8329	8380
35°	8150	8170	8235
40°	7978	8005	8076
45°	7803	7837	7917
50°	7615	7649	7737
55°	7399	7434	7555
60°	7153	7182	7344
65°	6840	6862	6992
70°	6421	6426	6566
75°	5836	5815	5949
80°	5015	4993	5078
85°	3890	3829	3850

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.9	3.5
10°-20°	884.4	9.9
20°-30°	1316.6	14.8
30°-40°	1557.1	17.5
40°-50°	1589.5	17.9
50°-60°	1418.6	16.0
60°-70°	1068.5	12.0
70°-80°	595.9	6.7
80°-90°	149.3	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°	2512.0	28.3
0°-40°	4069.0	45.8
0°-60°	7077.1	79.6
0°-90°	8890.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8890.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3290	3290	3290	3290	3290	
5°	3269	3275	3272	3273	3276	311
15°	3134	3137	3136	3138	3144	883
25°	2850	2853	2856	2864	2869	1313
35°	2481	2478	2487	2497	2507	1551
45°	2050	2050	2059	2070	2080	1582
55°	1577	1575	1584	1595	1610	1410
65°	1074	1070	1078	1087	1098	1063
75°	561	557	559	562	572	595
85°	126	123	124	123	125	151
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3290.3	3290.3	3290.3	3290.3	3290.3
2.5°	3284.8	3290.3	3283.5	3284.8	3291.0
5°	3269.2	3275.3	3271.9	3272.6	3276.0
7.5°	3247.4	3255.5	3250.8	3252.1	3255.5
10°	3221.5	3227.6	3222.2	3225.6	3231.7
12.5°	3184.7	3187.4	3184.7	3186.1	3192.9
15°	3133.6	3137.0	3135.7	3138.4	3144.5
17.5°	3073.7	3077.8	3077.1	3082.5	3087.3
20°	3008.9	3009.6	3012.4	3017.8	3023.3
22.5°	2932.7	2934.7	2937.4	2944.9	2950.4
25°	2849.5	2852.9	2856.4	2863.8	2869.3
27.5°	2761.7	2765.1	2769.8	2778.0	2786.9
30°	2671.7	2671.7	2680.6	2688.8	2696.9
32.5°	2581.1	2577.7	2585.9	2596.1	2615.9
35°	2481.0	2478.3	2487.1	2496.7	2506.9
37.5°	2376.8	2374.7	2385.0	2395.2	2404.7
40°	2271.2	2268.5	2278.7	2288.9	2299.1
42.5°	2162.9	2161.5	2171.0	2181.3	2192.2
45°	2050.5	2049.8	2059.3	2069.5	2080.4
47.5°	1936.0	1934.7	1944.2	1955.1	1964.6
50°	1818.9	1817.5	1827.0	1837.9	1848.1
52.5°	1698.3	1698.3	1707.1	1716.7	1732.3
55°	1577.0	1575.0	1584.5	1595.4	1610.4
57.5°	1454.4	1451.7	1460.5	1471.4	1485.1
60°	1329.1	1326.3	1334.5	1345.4	1364.5
62.5°	1202.4	1198.3	1206.4	1216.7	1228.2
65°	1074.3	1070.2	1077.7	1087.2	1098.1
67.5°	945.5	940.8	948.3	956.4	966.7
70°	816.1	811.3	816.8	825.0	834.5
72.5°	687.4	682.6	687.4	690.8	702.3
75°	561.3	556.6	559.3	562.0	572.2
77.5°	438.7	433.9	439.4	440.7	446.9
80°	323.6	318.8	322.2	322.9	327.7
82.5°	218.7	214.6	219.4	215.9	220.0
85°	126.0	122.6	124.0	122.6	124.7
87.5°	49.7	47.0	47.7	45.0	45.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)