

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: P835764

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-6HI-35-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835764
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-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

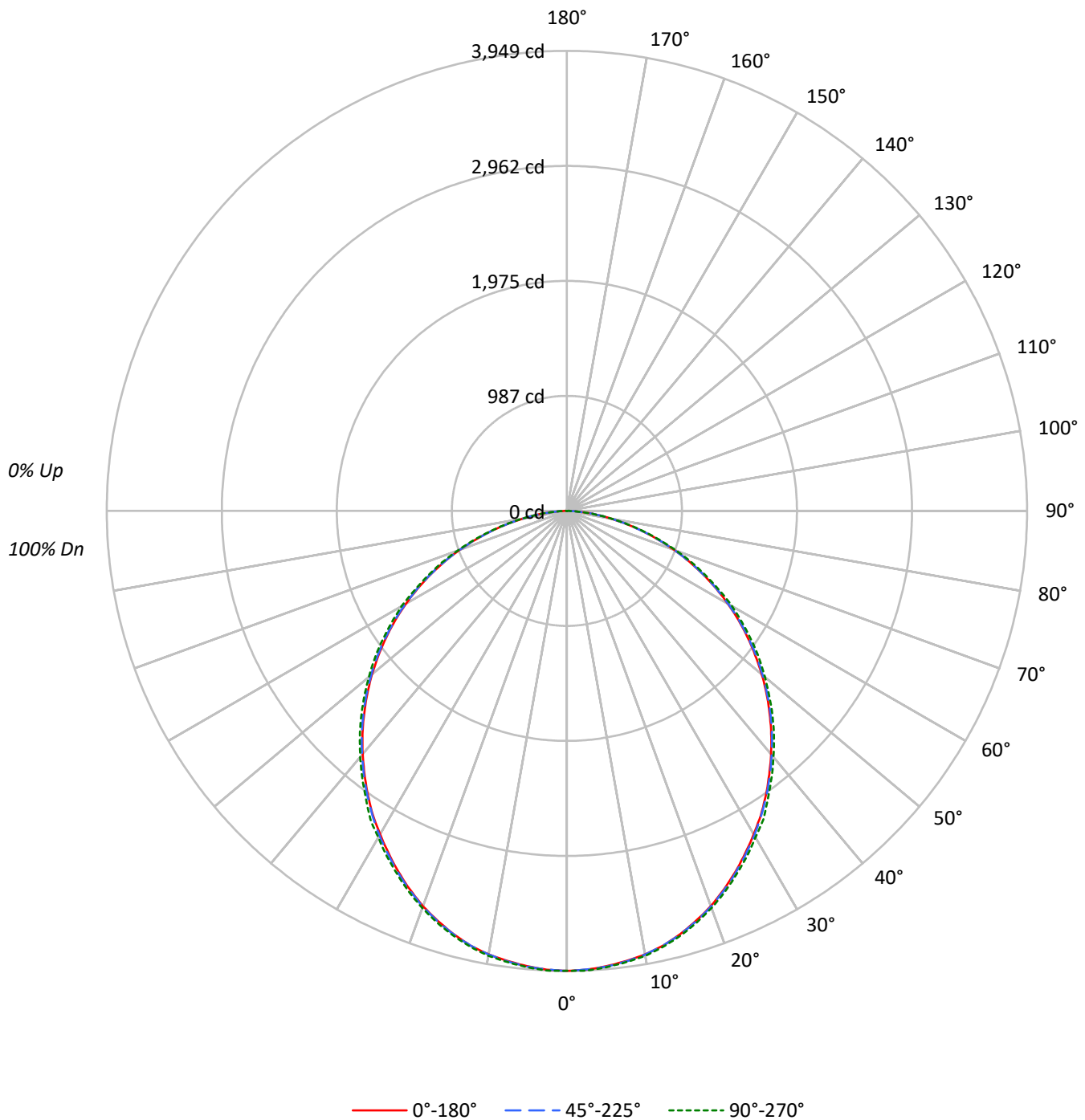
Lumens per Lamp: N/A
Luminaire Lumens: 10669.2 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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

1121 Highway 74 South

Peachtree City, GA 30269



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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°	10625	10625	10625
5°	10597	10606	10619
10°	10564	10566	10597
15°	10476	10483	10513
20°	10340	10352	10389
25°	10153	10177	10224
30°	9963	9995	10056
35°	9781	9805	9883
40°	9574	9606	9692
45°	9364	9405	9501
50°	9138	9179	9285
55°	8879	8921	9066
60°	8584	8619	8812
65°	8209	8235	8391
70°	7706	7712	7879
75°	7004	6979	7140
80°	6017	5993	6093
85°	4668	4594	4619

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.1	3.5
10°-20°	1061.3	9.9
20°-30°	1580.0	14.8
30°-40°	1868.5	17.5
40°-50°	1907.5	17.9
50°-60°	1702.3	16.0
60°-70°	1282.2	12.0
70°-80°	715.0	6.7
80°-90°	179.1	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°	3014.5	28.3
0°-40°	4883.0	45.8
0°-60°	8492.8	79.6
0°-90°	10669.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10669.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3948	3948	3948	3948	3948	
5°	3923	3930	3926	3927	3931	373
15°	3760	3764	3763	3766	3774	1060
25°	3420	3424	3428	3437	3443	1575
35°	2977	2974	2985	2996	3008	1862
45°	2461	2460	2471	2484	2497	1898
55°	1892	1890	1902	1915	1932	1692
65°	1289	1284	1293	1305	1318	1275
75°	674	668	671	674	687	714
85°	151	147	149	147	150	182
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3948.5	3948.5	3948.5	3948.5	3948.5
2.5°	3941.9	3948.5	3940.3	3941.9	3949.3
5°	3923.1	3930.5	3926.4	3927.2	3931.3
7.5°	3897.0	3906.8	3901.1	3902.7	3906.8
10°	3865.9	3873.3	3866.7	3870.8	3878.2
12.5°	3821.8	3825.0	3821.8	3823.4	3831.6
15°	3760.5	3764.5	3762.9	3766.2	3773.5
17.5°	3688.5	3693.4	3692.6	3699.1	3704.9
20°	3610.9	3611.7	3614.9	3621.5	3628.0
22.5°	3519.3	3521.7	3525.0	3534.0	3540.6
25°	3419.6	3423.7	3427.7	3436.7	3443.3
27.5°	3314.1	3318.2	3323.9	3333.7	3344.4
30°	3206.2	3206.2	3216.8	3226.6	3236.4
32.5°	3097.5	3093.4	3103.2	3115.5	3139.2
35°	2977.3	2974.0	2984.7	2996.1	3008.4
37.5°	2852.2	2849.8	2862.0	2874.3	2885.7
40°	2725.5	2722.2	2734.5	2746.8	2759.0
42.5°	2595.5	2593.9	2605.3	2617.6	2630.7
45°	2460.6	2459.8	2471.3	2483.5	2496.6
47.5°	2323.3	2321.7	2333.1	2346.2	2357.6
50°	2182.7	2181.1	2192.5	2205.6	2217.9
52.5°	2038.0	2038.0	2048.6	2060.1	2078.9
55°	1892.5	1890.0	1901.5	1914.6	1932.5
57.5°	1745.3	1742.1	1752.7	1765.8	1782.1
60°	1594.9	1591.7	1601.5	1614.5	1637.4
62.5°	1442.9	1438.0	1447.8	1460.0	1473.9
65°	1289.2	1284.3	1293.3	1304.7	1317.8
67.5°	1134.7	1129.0	1137.9	1147.8	1160.0
70°	979.4	973.6	980.2	990.0	1001.4
72.5°	824.8	819.1	824.8	828.9	842.8
75°	673.6	667.9	671.2	674.4	686.7
77.5°	526.5	520.7	527.3	528.9	536.3
80°	388.3	382.6	386.7	387.5	393.2
82.5°	262.4	257.5	263.2	259.1	264.0
85°	151.2	147.1	148.8	147.1	149.6
87.5°	59.7	56.4	57.2	54.0	54.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)