

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: P835781

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

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835781
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-LD4-6STD-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

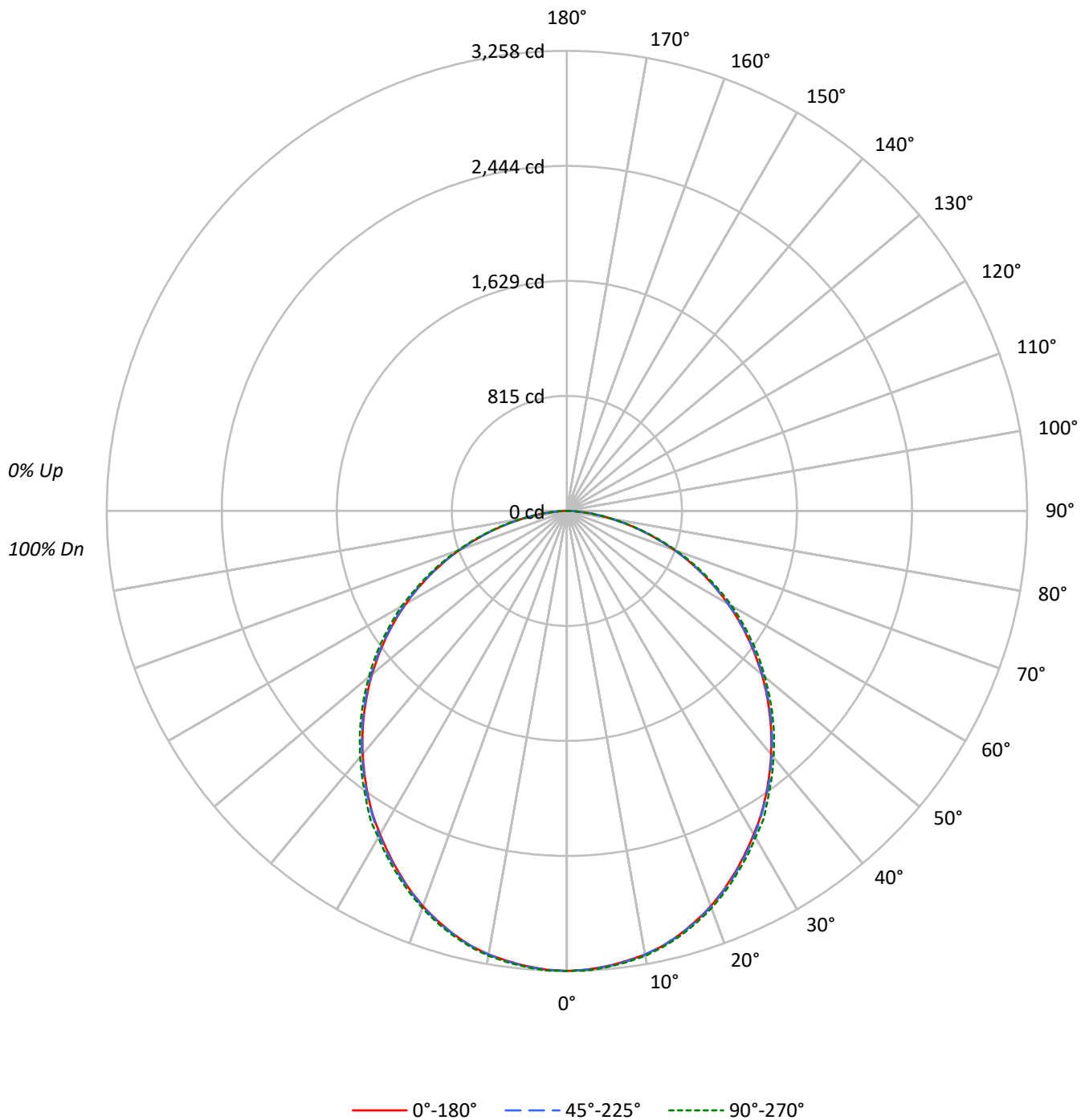
Lumens per Lamp: N/A
Luminaire Lumens: 8803.0 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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	30	10	50	30	10
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°	8767	8767	8767
5°	8744	8751	8762
10°	8716	8718	8743
15°	8644	8649	8674
20°	8532	8541	8572
25°	8377	8397	8435
30°	8220	8247	8297
35°	8070	8090	8154
40°	7900	7926	7997
45°	7726	7760	7839
50°	7539	7573	7661
55°	7326	7361	7481
60°	7082	7111	7271
65°	6773	6795	6923
70°	6357	6363	6501
75°	5779	5758	5891
80°	4965	4943	5027
85°	3853	3792	3810

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.8	3.5
10°-20°	875.7	9.9
20°-30°	1303.6	14.8
30°-40°	1541.7	17.5
40°-50°	1573.8	17.9
50°-60°	1404.6	16.0
60°-70°	1057.9	12.0
70°-80°	590.0	6.7
80°-90°	147.8	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°	2487.2	28.3
0°-40°	4028.9	45.8
0°-60°	7007.3	79.6
0°-90°	8803.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8803.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3258	3258	3258	3258	3258	
5°	3237	3243	3240	3240	3244	307
15°	3103	3106	3105	3107	3114	875
25°	2821	2825	2828	2836	2841	1300
35°	2456	2454	2463	2472	2482	1536
45°	2030	2030	2039	2049	2060	1566
55°	1562	1559	1569	1580	1594	1396
65°	1064	1060	1067	1076	1087	1052
75°	556	551	554	556	567	589
85°	125	121	123	121	123	150
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3257.8	3257.8	3257.8	3257.8	3257.8
2.5°	3252.4	3257.8	3251.1	3252.4	3258.5
5°	3236.9	3243.0	3239.6	3240.3	3243.7
7.5°	3215.3	3223.4	3218.7	3220.0	3223.4
10°	3189.7	3195.8	3190.4	3193.7	3199.8
12.5°	3153.3	3156.0	3153.3	3154.6	3161.4
15°	3102.7	3106.1	3104.7	3107.4	3113.5
17.5°	3043.3	3047.4	3046.7	3052.1	3056.8
20°	2979.3	2979.9	2982.6	2988.0	2993.4
22.5°	2903.7	2905.7	2908.4	2915.9	2921.2
25°	2821.4	2824.8	2828.2	2835.6	2841.0
27.5°	2734.4	2737.8	2742.5	2750.6	2759.4
30°	2645.4	2645.4	2654.1	2662.2	2670.3
32.5°	2555.7	2552.3	2560.4	2570.5	2590.1
35°	2456.5	2453.8	2462.6	2472.0	2482.1
37.5°	2353.3	2351.3	2361.4	2371.5	2381.0
40°	2248.8	2246.1	2256.2	2266.3	2276.4
42.5°	2141.5	2140.2	2149.6	2159.7	2170.5
45°	2030.2	2029.6	2039.0	2049.1	2059.9
47.5°	1916.9	1915.6	1925.0	1935.8	1945.2
50°	1800.9	1799.6	1809.0	1819.8	1829.9
52.5°	1681.5	1681.5	1690.3	1699.7	1715.2
55°	1561.5	1559.4	1568.9	1579.7	1594.5
57.5°	1440.1	1437.4	1446.1	1456.9	1470.4
60°	1315.9	1313.2	1321.3	1332.1	1351.0
62.5°	1190.5	1186.4	1194.5	1204.7	1216.1
65°	1063.7	1059.6	1067.1	1076.5	1087.3
67.5°	936.2	931.5	938.9	947.0	957.1
70°	808.0	803.3	808.7	816.8	826.3
72.5°	680.6	675.8	680.6	683.9	695.4
75°	555.8	551.1	553.8	556.5	566.6
77.5°	434.4	429.7	435.1	436.4	442.5
80°	320.4	315.7	319.0	319.7	324.4
82.5°	216.5	212.5	217.2	213.8	217.9
85°	124.8	121.4	122.8	121.4	123.4
87.5°	49.2	46.5	47.2	44.5	44.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)