

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: P835787

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-2STD-50-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835787
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-LD4-2STD-50-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

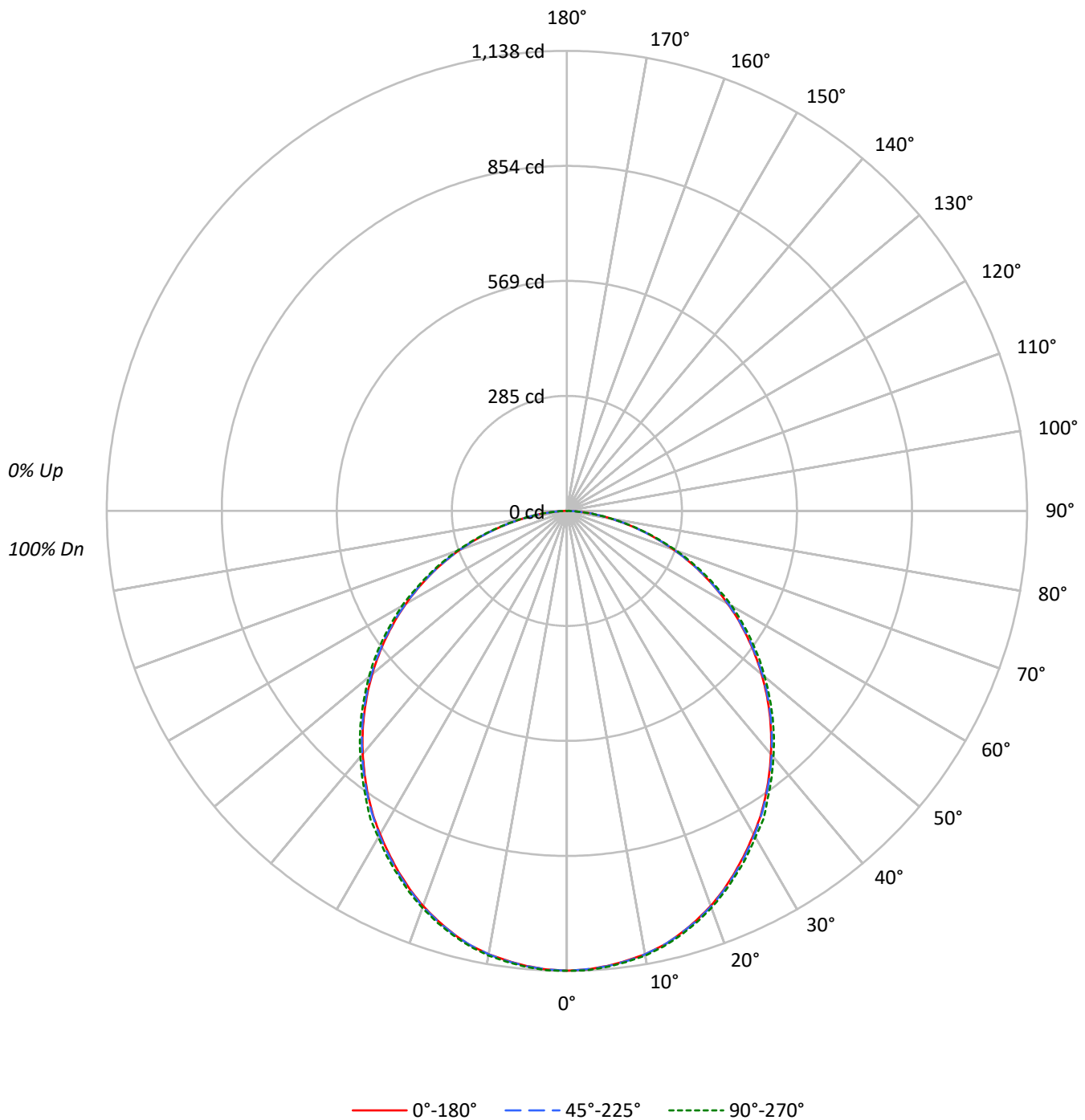
Lumens per Lamp: N/A
Luminaire Lumens: 3073.3 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	3061	3061	3061
5°	3053	3055	3059
10°	3043	3043	3052
15°	3018	3020	3028
20°	2979	2982	2993
25°	2925	2932	2945
30°	2870	2879	2897
35°	2817	2824	2847
40°	2758	2767	2792
45°	2697	2709	2737
50°	2632	2644	2675
55°	2557	2570	2612
60°	2472	2483	2539
65°	2365	2372	2417
70°	2220	2221	2270
75°	2017	2010	2057
80°	1734	1726	1756
85°	1346	1325	1331

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.5	3.5
10°-20°	305.7	9.9
20°-30°	455.1	14.8
30°-40°	538.2	17.5
40°-50°	549.5	17.9
50°-60°	490.4	16.0
60°-70°	369.3	12.0
70°-80°	206.0	6.7
80°-90°	51.6	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°	868.3	28.3
0°-40°	1406.6	45.8
0°-60°	2446.4	79.6
0°-90°	3073.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3073.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1137	1137	1137	1137	1137	
5°	1130	1132	1131	1131	1132	107
15°	1083	1084	1084	1085	1087	305
25°	985	986	987	990	992	454
35°	858	857	860	863	867	536
45°	709	709	712	715	719	547
55°	545	544	548	552	557	487
65°	371	370	372	376	380	367
75°	194	192	193	194	198	206
85°	44	42	43	42	43	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1137.4	1137.4	1137.4	1137.4	1137.4
2.5°	1135.5	1137.4	1135.0	1135.5	1137.6
5°	1130.1	1132.2	1131.0	1131.2	1132.4
7.5°	1122.5	1125.4	1123.7	1124.2	1125.4
10°	1113.6	1115.7	1113.8	1115.0	1117.1
12.5°	1100.9	1101.8	1100.9	1101.3	1103.7
15°	1083.2	1084.4	1083.9	1084.9	1087.0
17.5°	1062.5	1063.9	1063.7	1065.6	1067.2
20°	1040.1	1040.4	1041.3	1043.2	1045.1
22.5°	1013.7	1014.5	1015.4	1018.0	1019.9
25°	985.0	986.2	987.4	990.0	991.8
27.5°	954.6	955.8	957.5	960.3	963.4
30°	923.6	923.6	926.6	929.4	932.3
32.5°	892.2	891.1	893.9	897.4	904.2
35°	857.6	856.7	859.7	863.0	866.6
37.5°	821.6	820.9	824.4	828.0	831.2
40°	785.1	784.2	787.7	791.2	794.7
42.5°	747.7	747.2	750.5	754.0	757.8
45°	708.8	708.6	711.9	715.4	719.2
47.5°	669.2	668.8	672.1	675.8	679.1
50°	628.7	628.3	631.6	635.3	638.9
52.5°	587.1	587.1	590.1	593.4	598.8
55°	545.1	544.4	547.7	551.5	556.7
57.5°	502.8	501.8	504.9	508.6	513.3
60°	459.4	458.5	461.3	465.1	471.7
62.5°	415.6	414.2	417.0	420.6	424.6
65°	371.4	369.9	372.5	375.8	379.6
67.5°	326.8	325.2	327.8	330.6	334.1
70°	282.1	280.5	282.3	285.2	288.5
72.5°	237.6	236.0	237.6	238.8	242.8
75°	194.0	192.4	193.3	194.3	197.8
77.5°	151.6	150.0	151.9	152.4	154.5
80°	111.9	110.2	111.4	111.6	113.3
82.5°	75.6	74.2	75.8	74.6	76.1
85°	43.6	42.4	42.9	42.4	43.1
87.5°	17.2	16.2	16.5	15.5	15.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)