

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: P835625

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-2STD-30-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835625
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-30-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

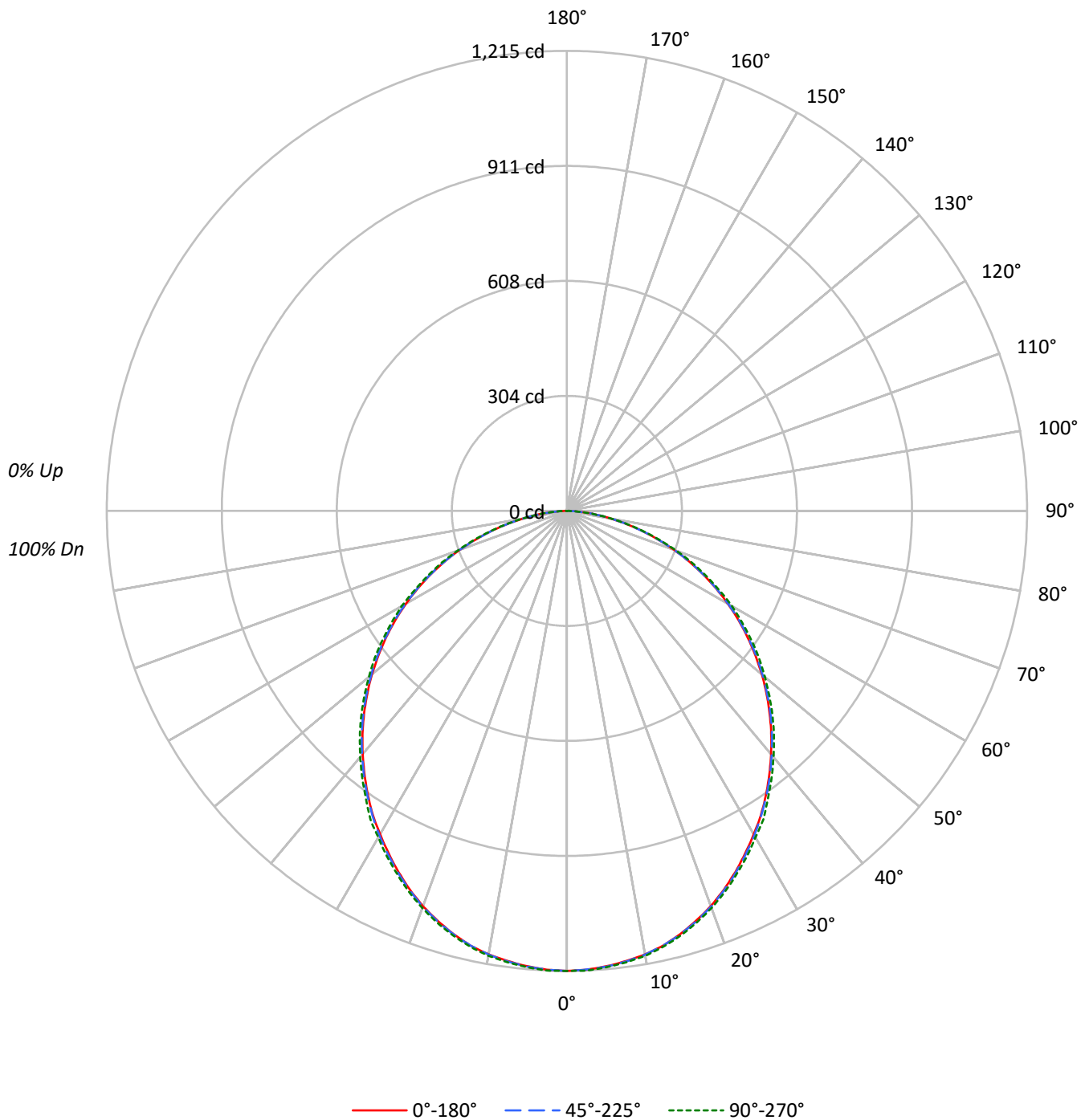
Lumens per Lamp: N/A
Luminaire Lumens: 3282.8 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

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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°	3269	3269	3269
5°	3261	3263	3267
10°	3250	3251	3261
15°	3224	3226	3235
20°	3182	3185	3197
25°	3124	3132	3146
30°	3065	3076	3094
35°	3009	3017	3041
40°	2946	2956	2982
45°	2881	2894	2923
50°	2812	2824	2857
55°	2732	2745	2790
60°	2641	2652	2711
65°	2526	2534	2582
70°	2371	2373	2424
75°	2155	2147	2197
80°	1852	1844	1875
85°	1436	1414	1420

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.8	3.5
10°-20°	326.6	9.9
20°-30°	486.2	14.8
30°-40°	574.9	17.5
40°-50°	586.9	17.9
50°-60°	523.8	16.0
60°-70°	394.5	12.0
70°-80°	220.0	6.7
80°-90°	55.1	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°	927.5	28.3
0°-40°	1502.5	45.8
0°-60°	2613.2	79.6
0°-90°	3282.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3282.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1215	1215	1215	1215	1215	
5°	1207	1209	1208	1208	1210	115
15°	1157	1158	1158	1159	1161	326
25°	1052	1053	1055	1058	1060	485
35°	916	915	918	922	926	573
45°	757	757	760	764	768	584
55°	582	582	585	589	595	520
65°	397	395	398	402	406	392
75°	207	206	206	208	211	220
85°	46	45	46	45	46	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1214.9	1214.9	1214.9	1214.9	1214.9
2.5°	1212.9	1214.9	1212.4	1212.9	1215.2
5°	1207.1	1209.4	1208.1	1208.4	1209.6
7.5°	1199.1	1202.1	1200.3	1200.8	1202.1
10°	1189.5	1191.8	1189.8	1191.0	1193.3
12.5°	1175.9	1176.9	1175.9	1176.4	1179.0
15°	1157.1	1158.3	1157.8	1158.8	1161.1
17.5°	1134.9	1136.4	1136.2	1138.2	1140.0
20°	1111.0	1111.3	1112.3	1114.3	1116.3
22.5°	1082.9	1083.6	1084.6	1087.4	1089.4
25°	1052.2	1053.4	1054.7	1057.5	1059.5
27.5°	1019.7	1021.0	1022.7	1025.8	1029.0
30°	986.5	986.5	989.8	992.8	995.8
32.5°	953.1	951.8	954.8	958.6	965.9
35°	916.1	915.1	918.4	921.9	925.7
37.5°	877.6	876.9	880.6	884.4	887.9
40°	838.6	837.6	841.4	845.2	848.9
42.5°	798.6	798.1	801.6	805.4	809.4
45°	757.1	756.9	760.4	764.2	768.2
47.5°	714.9	714.4	717.9	721.9	725.4
50°	671.6	671.1	674.6	678.6	682.4
52.5°	627.1	627.1	630.3	633.9	639.7
55°	582.3	581.6	585.1	589.1	594.6
57.5°	537.0	536.0	539.3	543.3	548.3
60°	490.7	489.7	492.8	496.8	503.8
62.5°	444.0	442.5	445.5	449.2	453.5
65°	396.7	395.2	397.9	401.5	405.5
67.5°	349.1	347.4	350.1	353.2	356.9
70°	301.3	299.6	301.6	304.6	308.1
72.5°	253.8	252.0	253.8	255.1	259.3
75°	207.3	205.5	206.5	207.5	211.3
77.5°	162.0	160.2	162.2	162.7	165.0
80°	119.5	117.7	119.0	119.2	121.0
82.5°	80.7	79.2	81.0	79.7	81.2
85°	46.5	45.3	45.8	45.3	46.0
87.5°	18.4	17.4	17.6	16.6	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)