

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: P835607

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-2STD-27-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835607
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-27-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

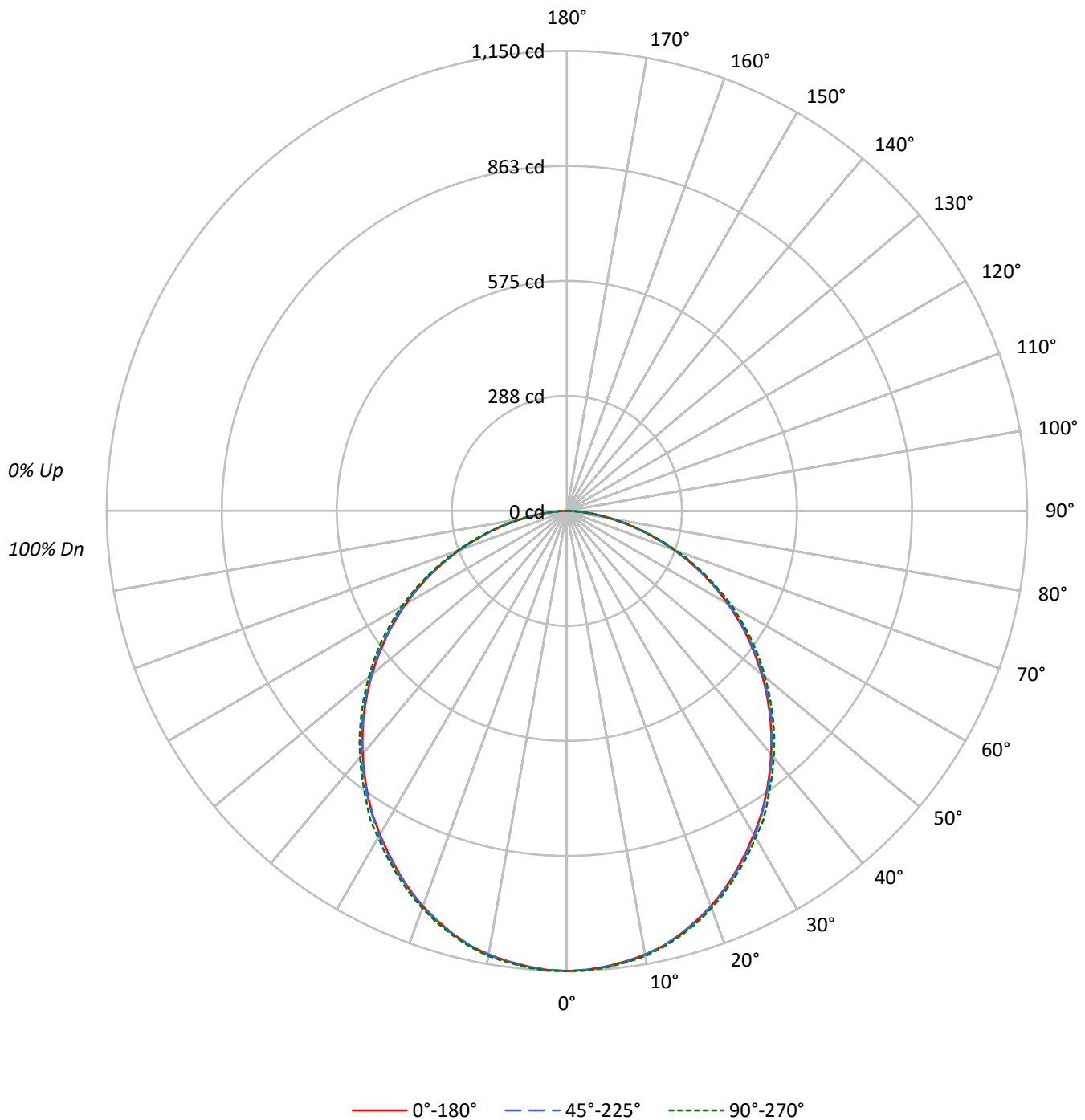
Lumens per Lamp: N/A
Luminaire Lumens: 3108.2 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

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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	102	102	100
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	86	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	46	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	40	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	36	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	32	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	27	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3095	3095	3095
5°	3087	3090	3094
10°	3077	3078	3087
15°	3052	3054	3063
20°	3012	3016	3027
25°	2958	2965	2978
30°	2903	2912	2930
35°	2849	2856	2879
40°	2789	2798	2824
45°	2728	2740	2768
50°	2662	2674	2705
55°	2586	2599	2641
60°	2500	2511	2567
65°	2392	2399	2444
70°	2245	2246	2295
75°	2040	2033	2080
80°	1753	1745	1776
85°	1362	1337	1346

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.7	3.5
10°-20°	309.2	9.9
20°-30°	460.3	14.8
30°-40°	544.3	17.5
40°-50°	555.7	17.9
50°-60°	495.9	16.0
60°-70°	373.5	12.0
70°-80°	208.3	6.7
80°-90°	52.2	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°	878.2	28.3
0°-40°	1422.6	45.8
0°-60°	2474.2	79.6
0°-90°	3108.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3108.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1150	1150	1150	1150	1150	
5°	1143	1145	1144	1144	1145	109
15°	1096	1097	1096	1097	1099	309
25°	996	997	999	1001	1003	459
35°	867	866	870	873	876	542
45°	717	717	720	724	727	553
55°	551	551	554	558	563	493
65°	376	374	377	380	384	371
75°	196	195	196	196	200	208
85°	44	43	43	43	44	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1150.3	1150.3	1150.3	1150.3	1150.3
2.5°	1148.4	1150.3	1147.9	1148.4	1150.5
5°	1142.9	1145.1	1143.9	1144.1	1145.3
7.5°	1135.3	1138.2	1136.5	1137.0	1138.2
10°	1126.2	1128.4	1126.5	1127.7	1129.8
12.5°	1113.4	1114.3	1113.4	1113.9	1116.2
15°	1095.5	1096.7	1096.2	1097.2	1099.3
17.5°	1074.6	1076.0	1075.8	1077.7	1079.3
20°	1051.9	1052.2	1053.1	1055.0	1056.9
22.5°	1025.3	1026.0	1026.9	1029.6	1031.5
25°	996.2	997.4	998.6	1001.2	1003.1
27.5°	965.5	966.7	968.3	971.2	974.3
30°	934.1	934.1	937.1	940.0	942.9
32.5°	902.4	901.2	904.0	907.6	914.5
35°	867.4	866.4	869.5	872.8	876.4
37.5°	830.9	830.2	833.8	837.4	840.7
40°	794.0	793.1	796.6	800.2	803.8
42.5°	756.1	755.7	759.0	762.6	766.4
45°	716.9	716.6	719.9	723.5	727.3
47.5°	676.8	676.4	679.7	683.5	686.8
50°	635.9	635.4	638.7	642.5	646.1
52.5°	593.7	593.7	596.8	600.2	605.6
55°	551.3	550.6	554.0	557.8	563.0
57.5°	508.5	507.5	510.6	514.4	519.2
60°	464.6	463.7	466.5	470.4	477.0
62.5°	420.3	418.9	421.8	425.3	429.4
65°	375.6	374.1	376.8	380.1	383.9
67.5°	330.6	328.9	331.5	334.4	337.9
70°	285.3	283.6	285.5	288.4	291.7
72.5°	240.3	238.6	240.3	241.5	245.5
75°	196.2	194.6	195.5	196.5	200.1
77.5°	153.4	151.7	153.6	154.1	156.2
80°	113.1	111.5	112.6	112.9	114.6
82.5°	76.4	75.0	76.7	75.5	76.9
85°	44.1	42.9	43.3	42.9	43.6
87.5°	17.4	16.4	16.7	15.7	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)