

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: P834407

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-1STD-27-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834407
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-12-4-INS-OPL-LD4-1STD-27-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

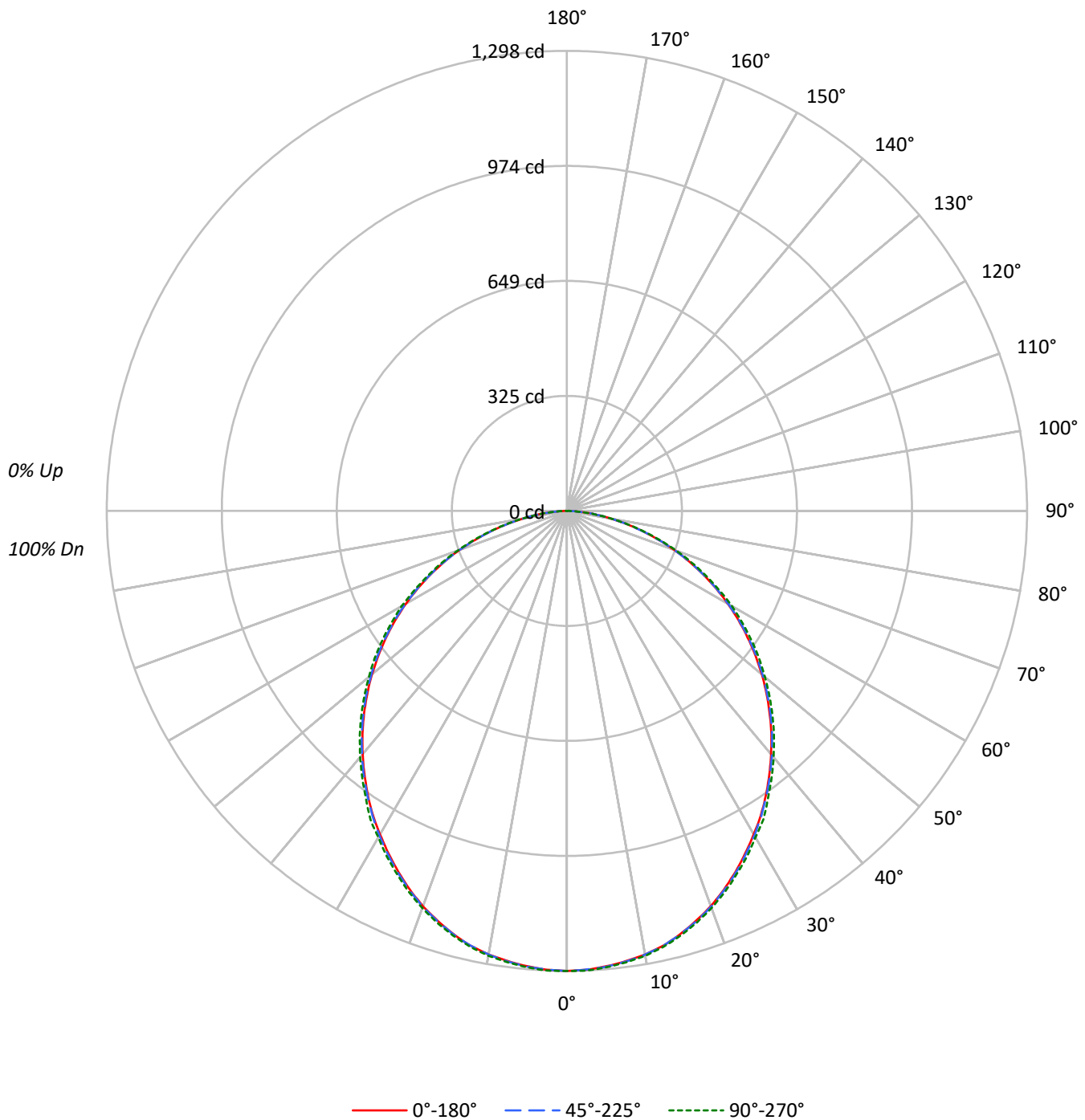
Lumens per Lamp: N/A
Luminaire Lumens: 3507.5 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3493	3493	3493
5°	3484	3487	3491
10°	3473	3474	3484
15°	3444	3446	3456
20°	3399	3403	3416
25°	3338	3346	3361
30°	3275	3286	3306
35°	3215	3223	3249
40°	3147	3158	3186
45°	3078	3092	3124
50°	3004	3018	3052
55°	2919	2933	2981
60°	2822	2834	2897
65°	2699	2707	2758
70°	2533	2535	2590
75°	2303	2294	2348
80°	1979	1970	2004
85°	1535	1510	1519

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.7	3.5
10°-20°	348.9	9.9
20°-30°	519.4	14.8
30°-40°	614.3	17.5
40°-50°	627.1	17.9
50°-60°	559.7	16.0
60°-70°	421.5	12.0
70°-80°	235.1	6.7
80°-90°	58.9	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°	991.0	28.3
0°-40°	1605.3	45.8
0°-60°	2792.0	79.6
0°-90°	3507.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3507.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1298	1298	1298	1298	1298	
5°	1290	1292	1291	1291	1292	123
15°	1236	1238	1237	1238	1241	348
25°	1124	1126	1127	1130	1132	518
35°	979	978	981	985	989	612
45°	809	809	812	816	821	624
55°	622	621	625	629	635	556
65°	424	422	425	429	433	419
75°	222	220	221	222	226	235
85°	50	48	49	48	49	60
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1298.1	1298.1	1298.1	1298.1	1298.1
2.5°	1295.9	1298.1	1295.4	1295.9	1298.3
5°	1289.7	1292.2	1290.8	1291.1	1292.4
7.5°	1281.1	1284.4	1282.5	1283.0	1284.4
10°	1270.9	1273.3	1271.2	1272.5	1275.0
12.5°	1256.4	1257.5	1256.4	1257.0	1259.6
15°	1236.3	1237.6	1237.1	1238.1	1240.6
17.5°	1212.6	1214.2	1214.0	1216.1	1218.0
20°	1187.1	1187.3	1188.4	1190.6	1192.7
22.5°	1157.0	1157.8	1158.9	1161.8	1164.0
25°	1124.2	1125.5	1126.9	1129.8	1132.0
27.5°	1089.5	1090.9	1092.7	1096.0	1099.5
30°	1054.0	1054.0	1057.5	1060.8	1064.0
32.5°	1018.3	1017.0	1020.2	1024.2	1032.0
35°	978.8	977.7	981.2	985.0	989.0
37.5°	937.7	936.9	940.9	944.9	948.7
40°	896.0	894.9	899.0	903.0	907.0
42.5°	853.3	852.8	856.5	860.5	864.8
45°	808.9	808.7	812.4	816.5	820.8
47.5°	763.8	763.3	767.0	771.3	775.1
50°	717.6	717.0	720.8	725.1	729.1
52.5°	670.0	670.0	673.5	677.3	683.4
55°	622.2	621.4	625.1	629.4	635.3
57.5°	573.8	572.7	576.2	580.5	585.9
60°	524.3	523.3	526.5	530.8	538.3
62.5°	474.3	472.7	476.0	480.0	484.6
65°	423.8	422.2	425.2	428.9	433.2
67.5°	373.0	371.1	374.1	377.3	381.4
70°	322.0	320.1	322.2	325.5	329.2
72.5°	271.2	269.3	271.2	272.5	277.1
75°	221.5	219.6	220.6	221.7	225.8
77.5°	173.1	171.2	173.3	173.9	176.3
80°	127.7	125.8	127.1	127.4	129.3
82.5°	86.3	84.7	86.5	85.2	86.8
85°	49.7	48.4	48.9	48.4	49.2
87.5°	19.6	18.5	18.8	17.7	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)