

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: P835627

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-3LO-30-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835627
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-LD4-3LO-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

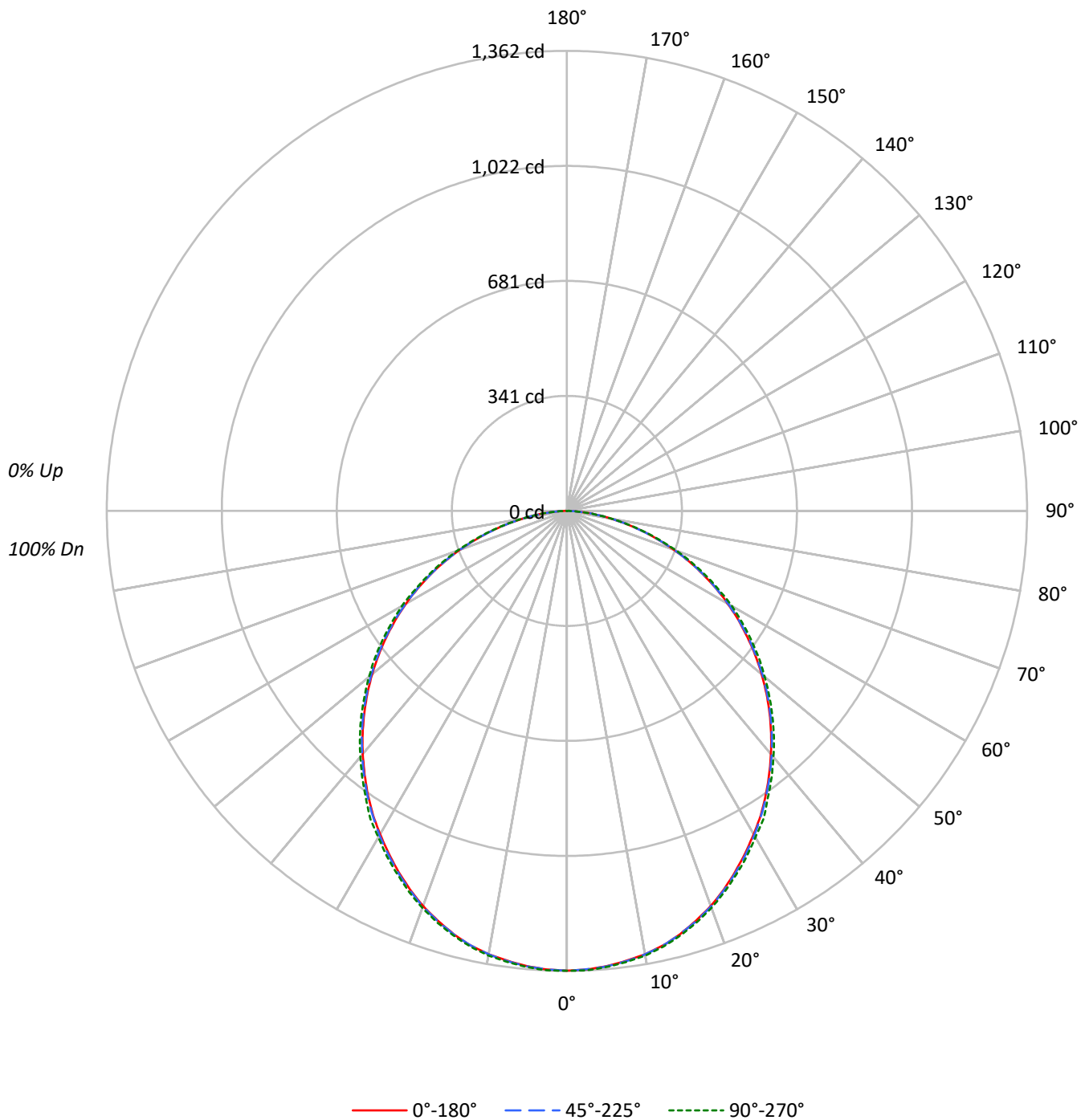
Lumens per Lamp: N/A
Luminaire Lumens: 3678.4 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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°	3663	3663	3663
5°	3654	3657	3661
10°	3642	3643	3654
15°	3612	3614	3624
20°	3565	3569	3582
25°	3500	3509	3525
30°	3435	3446	3467
35°	3372	3380	3407
40°	3301	3312	3341
45°	3228	3242	3275
50°	3150	3165	3201
55°	3061	3076	3126
60°	2960	2971	3038
65°	2830	2839	2893
70°	2656	2659	2717
75°	2414	2406	2461
80°	2075	2066	2101
85°	1609	1584	1593

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.6	3.5
10°-20°	365.9	9.9
20°-30°	544.7	14.8
30°-40°	644.2	17.5
40°-50°	657.6	17.9
50°-60°	586.9	16.0
60°-70°	442.1	12.0
70°-80°	246.5	6.7
80°-90°	61.8	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°	1039.3	28.3
0°-40°	1683.5	45.8
0°-60°	2928.0	79.6
0°-90°	3678.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3678.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1361	1361	1361	1361	1361	
5°	1353	1355	1354	1354	1355	128
15°	1296	1298	1297	1298	1301	365
25°	1179	1180	1182	1185	1187	543
35°	1026	1025	1029	1033	1037	642
45°	848	848	852	856	861	654
55°	652	652	656	660	666	583
65°	444	443	446	450	454	440
75°	232	230	231	232	237	246
85°	52	51	51	51	52	63
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1361.3	1361.3	1361.3	1361.3	1361.3
2.5°	1359.0	1361.3	1358.5	1359.0	1361.6
5°	1352.6	1355.1	1353.7	1354.0	1355.4
7.5°	1343.5	1346.9	1345.0	1345.5	1346.9
10°	1332.8	1335.4	1333.1	1334.5	1337.1
12.5°	1317.6	1318.7	1317.6	1318.2	1321.0
15°	1296.5	1297.9	1297.3	1298.4	1301.0
17.5°	1271.7	1273.4	1273.1	1275.3	1277.3
20°	1244.9	1245.2	1246.3	1248.6	1250.8
22.5°	1213.3	1214.2	1215.3	1218.4	1220.7
25°	1178.9	1180.4	1181.8	1184.9	1187.1
27.5°	1142.6	1144.0	1146.0	1149.4	1153.0
30°	1105.4	1105.4	1109.1	1112.4	1115.8
32.5°	1067.9	1066.5	1069.9	1074.1	1082.3
35°	1026.5	1025.3	1029.0	1033.0	1037.2
37.5°	983.3	982.5	986.7	991.0	994.9
40°	939.7	938.5	942.8	947.0	951.2
42.5°	894.8	894.3	898.2	902.5	907.0
45°	848.3	848.1	852.0	856.2	860.7
47.5°	801.0	800.4	804.4	808.9	812.8
50°	752.5	752.0	755.9	760.4	764.6
52.5°	702.6	702.6	706.3	710.2	716.7
55°	652.5	651.6	655.6	660.1	666.3
57.5°	601.7	600.6	604.3	608.8	614.4
60°	549.9	548.7	552.1	556.6	564.5
62.5°	497.5	495.8	499.1	503.4	508.2
65°	444.5	442.8	445.9	449.8	454.3
67.5°	391.2	389.2	392.3	395.7	399.9
70°	337.6	335.7	337.9	341.3	345.3
72.5°	284.4	282.4	284.4	285.8	290.6
75°	232.2	230.3	231.4	232.5	236.7
77.5°	181.5	179.5	181.8	182.4	184.9
80°	133.9	131.9	133.3	133.6	135.6
82.5°	90.5	88.8	90.8	89.3	91.0
85°	52.1	50.7	51.3	50.7	51.6
87.5°	20.6	19.4	19.7	18.6	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)