

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: P835770

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-2HI-40-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835770
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-LD4-2HI-40-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

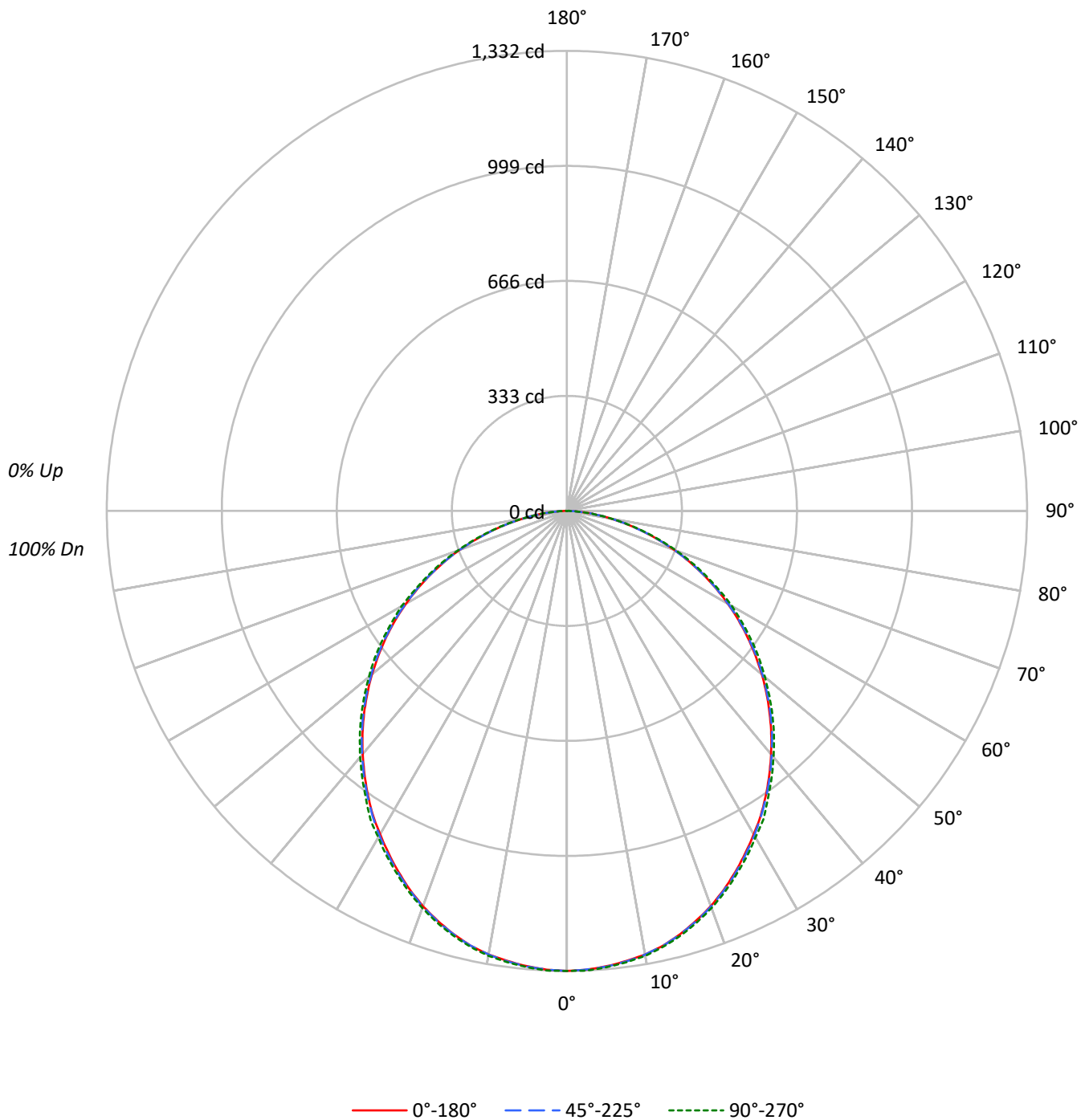
Lumens per Lamp: N/A
Luminaire Lumens: 3599.0 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	95	98	94	92		94	91	89		90
2	99	91	84	78	96	89	83	77	85	80	76		82	78	74		79
3	90	80	72	65	88	78	71	65	75	69	64		73	67	62		70
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		56
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51
7	65	52	43	37	64	51	43	37	49	42	36		48	41	36		47
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		43
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		40
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3584	3584	3584
5°	3575	3578	3582
10°	3563	3564	3575
15°	3534	3536	3546
20°	3488	3492	3505
25°	3425	3433	3449
30°	3361	3372	3392
35°	3299	3307	3334
40°	3230	3240	3269
45°	3159	3172	3205
50°	3082	3096	3132
55°	2995	3009	3058
60°	2895	2907	2973
65°	2769	2778	2830
70°	2600	2601	2658
75°	2362	2354	2408
80°	2030	2021	2055
85°	1575	1550	1559

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.9	3.5
10°-20°	358.0	9.9
20°-30°	533.0	14.8
30°-40°	630.3	17.5
40°-50°	643.5	17.9
50°-60°	574.2	16.0
60°-70°	432.5	12.0
70°-80°	241.2	6.7
80°-90°	60.4	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°	1016.9	28.3
0°-40°	1647.2	45.8
0°-60°	2864.9	79.6
0°-90°	3599.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3599.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1332	1332	1332	1332	1332	
5°	1323	1326	1324	1325	1326	126
15°	1268	1270	1269	1270	1273	358
25°	1154	1155	1156	1159	1162	531
35°	1004	1003	1007	1011	1015	628
45°	830	830	834	838	842	640
55°	638	638	641	646	652	571
65°	435	433	436	440	444	430
75°	227	225	226	228	232	241
85°	51	50	50	50	50	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1331.9	1331.9	1331.9	1331.9	1331.9
2.5°	1329.7	1331.9	1329.2	1329.7	1332.2
5°	1323.4	1325.9	1324.5	1324.8	1326.1
7.5°	1314.6	1317.9	1315.9	1316.5	1317.9
10°	1304.1	1306.6	1304.4	1305.7	1308.2
12.5°	1289.2	1290.3	1289.2	1289.7	1292.5
15°	1268.5	1269.9	1269.3	1270.4	1272.9
17.5°	1244.2	1245.9	1245.6	1247.8	1249.8
20°	1218.0	1218.3	1219.4	1221.6	1223.8
22.5°	1187.2	1188.0	1189.1	1192.1	1194.3
25°	1153.5	1154.9	1156.3	1159.3	1161.5
27.5°	1117.9	1119.3	1121.3	1124.6	1128.1
30°	1081.5	1081.5	1085.1	1088.4	1091.7
32.5°	1044.9	1043.5	1046.8	1050.9	1058.9
35°	1004.3	1003.2	1006.8	1010.7	1014.8
37.5°	962.1	961.3	965.4	969.6	973.4
40°	919.4	918.3	922.4	926.6	930.7
42.5°	875.5	875.0	878.9	883.0	887.4
45°	830.0	829.8	833.6	837.8	842.2
47.5°	783.7	783.2	787.0	791.4	795.3
50°	736.3	735.7	739.6	744.0	748.1
52.5°	687.5	687.5	691.1	694.9	701.3
55°	638.4	637.6	641.4	645.8	651.9
57.5°	588.8	587.7	591.2	595.6	601.2
60°	538.0	536.9	540.2	544.6	552.4
62.5°	486.7	485.1	488.4	492.5	497.2
65°	434.9	433.2	436.3	440.1	444.5
67.5°	382.8	380.8	383.9	387.2	391.3
70°	330.4	328.4	330.6	333.9	337.8
72.5°	278.2	276.3	278.2	279.6	284.3
75°	227.2	225.3	226.4	227.5	231.6
77.5°	177.6	175.7	177.9	178.4	180.9
80°	131.0	129.1	130.4	130.7	132.6
82.5°	88.5	86.9	88.8	87.4	89.1
85°	51.0	49.6	50.2	49.6	50.5
87.5°	20.1	19.0	19.3	18.2	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)