

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: P835701

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-3HI-20-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835701
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-LD4-3HI-20-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

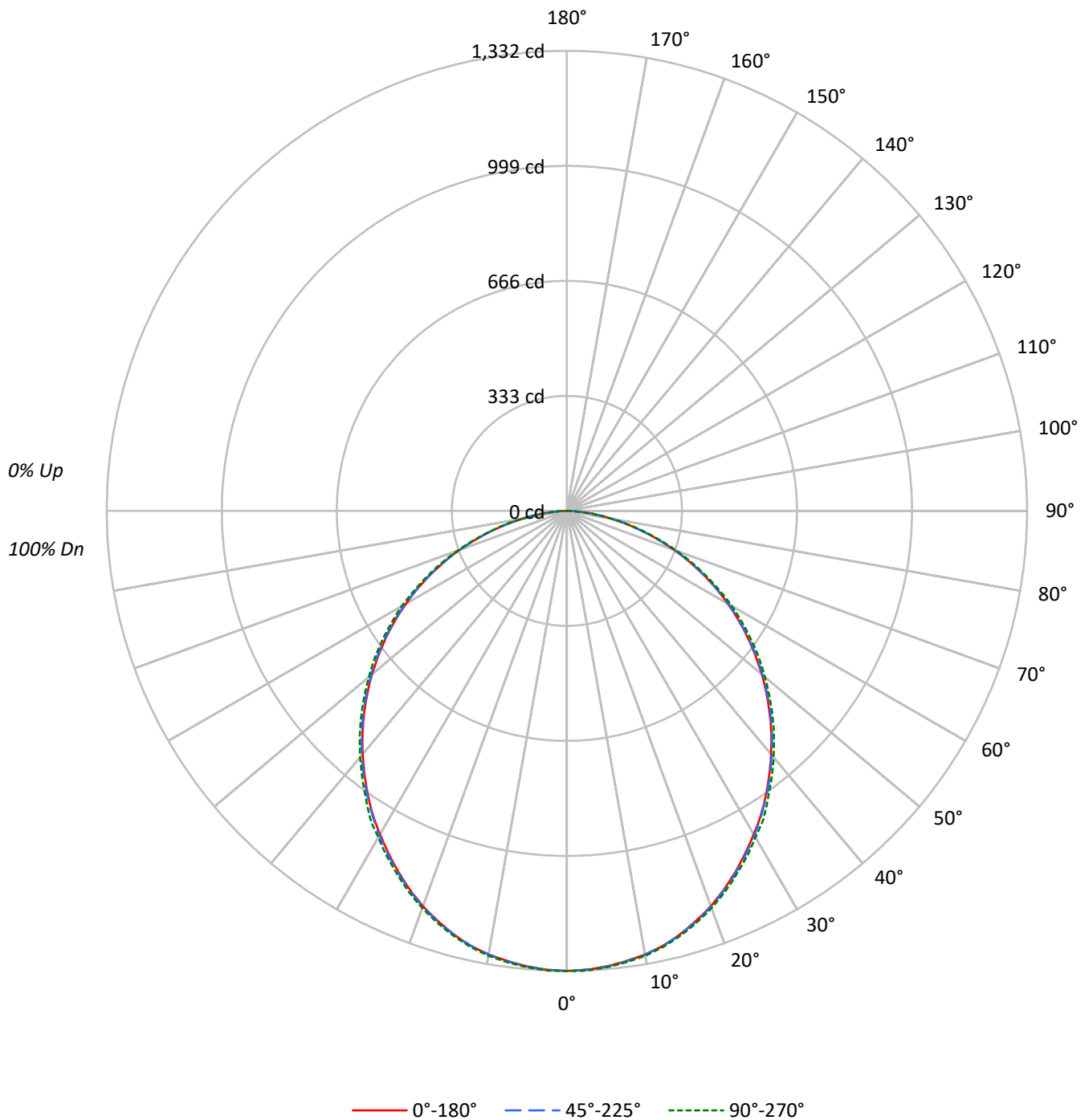
Lumens per Lamp: N/A
Luminaire Lumens: 3599.3 lumens
Efficiency: N/A
Efficacy: 54.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 66
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	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°	3584	3584	3584
5°	3575	3578	3582
10°	3564	3564	3575
15°	3534	3536	3546
20°	3488	3492	3505
25°	3425	3433	3449
30°	3361	3372	3393
35°	3300	3308	3334
40°	3230	3241	3270
45°	3159	3173	3205
50°	3082	3096	3132
55°	2995	3010	3058
60°	2895	2908	2973
65°	2769	2778	2831
70°	2600	2602	2658
75°	2362	2354	2409
80°	2030	2021	2056
85°	1575	1550	1559



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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°	574.3	16.0
60°-70°	432.6	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°	1647.3	45.8
0°-60°	2865.1	79.6
0°-90°	3599.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3599.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1332	1332	1332	1332	1332	
5°	1324	1326	1325	1325	1326	126
15°	1269	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	642	646	652	571
65°	435	433	436	440	445	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°	1332.0	1332.0	1332.0	1332.0	1332.0
2.5°	1329.8	1332.0	1329.3	1329.8	1332.3
5°	1323.5	1325.9	1324.6	1324.8	1326.2
7.5°	1314.6	1318.0	1316.0	1316.6	1318.0
10°	1304.2	1306.6	1304.4	1305.8	1308.3
12.5°	1289.3	1290.4	1289.3	1289.8	1292.6
15°	1268.6	1270.0	1269.4	1270.5	1273.0
17.5°	1244.3	1246.0	1245.7	1247.9	1249.8
20°	1218.1	1218.4	1219.5	1221.7	1223.9
22.5°	1187.2	1188.1	1189.2	1192.2	1194.4
25°	1153.6	1155.0	1156.3	1159.4	1161.6
27.5°	1118.0	1119.4	1121.3	1124.6	1128.2
30°	1081.6	1081.6	1085.2	1088.5	1091.8
32.5°	1044.9	1043.6	1046.9	1051.0	1059.0
35°	1004.4	1003.3	1006.9	1010.7	1014.9
37.5°	962.2	961.4	965.5	969.6	973.5
40°	919.5	918.3	922.5	926.6	930.8
42.5°	875.6	875.0	878.9	883.0	887.5
45°	830.1	829.8	833.7	837.8	842.2
47.5°	783.8	783.2	787.1	791.5	795.3
50°	736.3	735.8	739.6	744.1	748.2
52.5°	687.5	687.5	691.1	695.0	701.3
55°	638.4	637.6	641.5	645.9	651.9
57.5°	588.8	587.7	591.3	595.7	601.2
60°	538.0	536.9	540.3	544.7	552.4
62.5°	486.8	485.1	488.4	492.5	497.2
65°	434.9	433.3	436.3	440.1	444.6
67.5°	382.8	380.9	383.9	387.2	391.3
70°	330.4	328.5	330.7	334.0	337.8
72.5°	278.3	276.3	278.3	279.6	284.3
75°	227.2	225.3	226.4	227.5	231.7
77.5°	177.6	175.7	177.9	178.4	180.9
80°	131.0	129.1	130.4	130.7	132.7
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)