

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: P834408

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

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834408
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-LD4-1HI-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

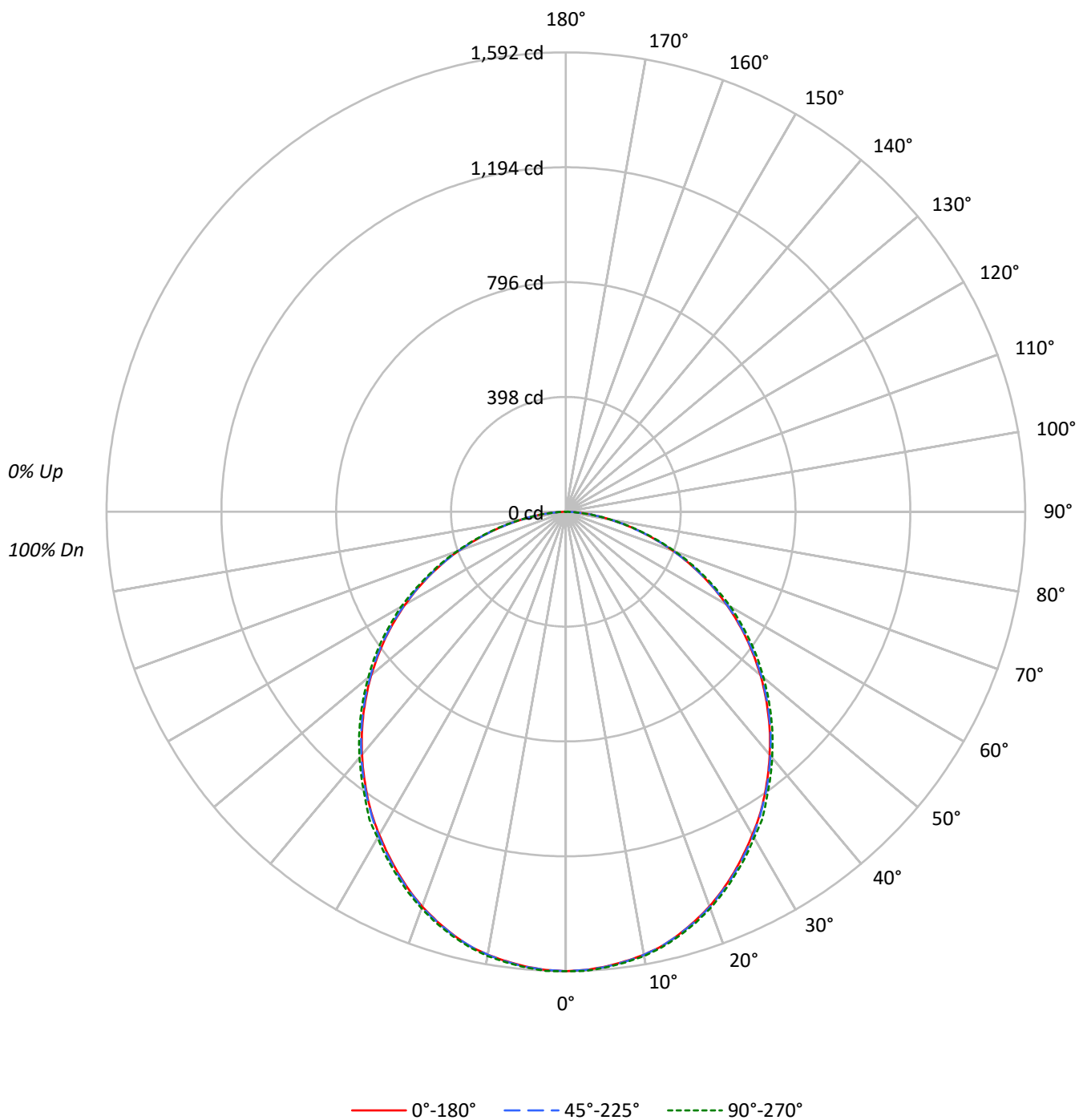
Lumens per Lamp: N/A
Luminaire Lumens: 4302.2 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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°	4285	4285	4285
5°	4273	4277	4282
10°	4260	4261	4273
15°	4224	4227	4239
20°	4170	4174	4189
25°	4094	4104	4122
30°	4017	4030	4055
35°	3944	3954	3985
40°	3861	3873	3908
45°	3776	3792	3831
50°	3684	3701	3744
55°	3580	3597	3656
60°	3461	3476	3554
65°	3310	3321	3384
70°	3107	3109	3177
75°	2824	2813	2879
80°	2427	2416	2458
85°	1883	1853	1862

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.5	3.5
10°-20°	428.0	9.9
20°-30°	637.1	14.8
30°-40°	753.4	17.5
40°-50°	769.2	17.9
50°-60°	686.4	16.0
60°-70°	517.0	12.0
70°-80°	288.3	6.7
80°-90°	72.2	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°	1215.5	28.3
0°-40°	1969.0	45.8
0°-60°	3424.6	79.6
0°-90°	4302.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4302.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1592	1592	1592	1592	1592	
5°	1582	1585	1583	1584	1585	150
15°	1516	1518	1517	1519	1522	427
25°	1379	1380	1382	1386	1388	635
35°	1200	1199	1204	1208	1213	751
45°	992	992	996	1001	1007	765
55°	763	762	767	772	779	682
65°	520	518	522	526	531	514
75°	272	269	271	272	277	288
85°	61	59	60	59	60	73
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1592.2	1592.2	1592.2	1592.2	1592.2
2.5°	1589.5	1592.2	1588.9	1589.5	1592.5
5°	1581.9	1584.9	1583.3	1583.6	1585.2
7.5°	1571.4	1575.3	1573.0	1573.7	1575.3
10°	1558.9	1561.8	1559.2	1560.8	1563.8
12.5°	1541.1	1542.4	1541.1	1541.7	1545.0
15°	1516.3	1518.0	1517.3	1518.6	1521.6
17.5°	1487.3	1489.3	1489.0	1491.6	1493.9
20°	1456.0	1456.3	1457.7	1460.3	1462.9
22.5°	1419.1	1420.1	1421.4	1425.0	1427.7
25°	1378.9	1380.5	1382.2	1385.8	1388.4
27.5°	1336.4	1338.0	1340.3	1344.3	1348.5
30°	1292.8	1292.8	1297.1	1301.1	1305.0
32.5°	1249.0	1247.4	1251.3	1256.3	1265.8
35°	1200.5	1199.2	1203.5	1208.1	1213.1
37.5°	1150.1	1149.1	1154.1	1159.0	1163.6
40°	1099.0	1097.7	1102.6	1107.6	1112.5
42.5°	1046.6	1045.9	1050.6	1055.5	1060.8
45°	992.2	991.9	996.5	1001.4	1006.7
47.5°	936.8	936.2	940.8	946.1	950.7
50°	880.1	879.5	884.1	889.4	894.3
52.5°	821.8	821.8	826.1	830.7	838.3
55°	763.1	762.1	766.7	772.0	779.3
57.5°	703.8	702.5	706.7	712.0	718.6
60°	643.1	641.8	645.8	651.0	660.3
62.5°	581.8	579.8	583.8	588.7	594.3
65°	519.8	517.9	521.5	526.1	531.4
67.5°	457.5	455.2	458.9	462.8	467.8
70°	394.9	392.6	395.2	399.2	403.8
72.5°	332.6	330.3	332.6	334.3	339.9
75°	271.6	269.3	270.6	272.0	276.9
77.5°	212.3	210.0	212.6	213.3	216.2
80°	156.6	154.3	155.9	156.2	158.6
82.5°	105.8	103.8	106.1	104.5	106.5
85°	61.0	59.3	60.0	59.3	60.3
87.5°	24.1	22.7	23.1	21.8	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)