

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: P835626

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

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835626
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-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

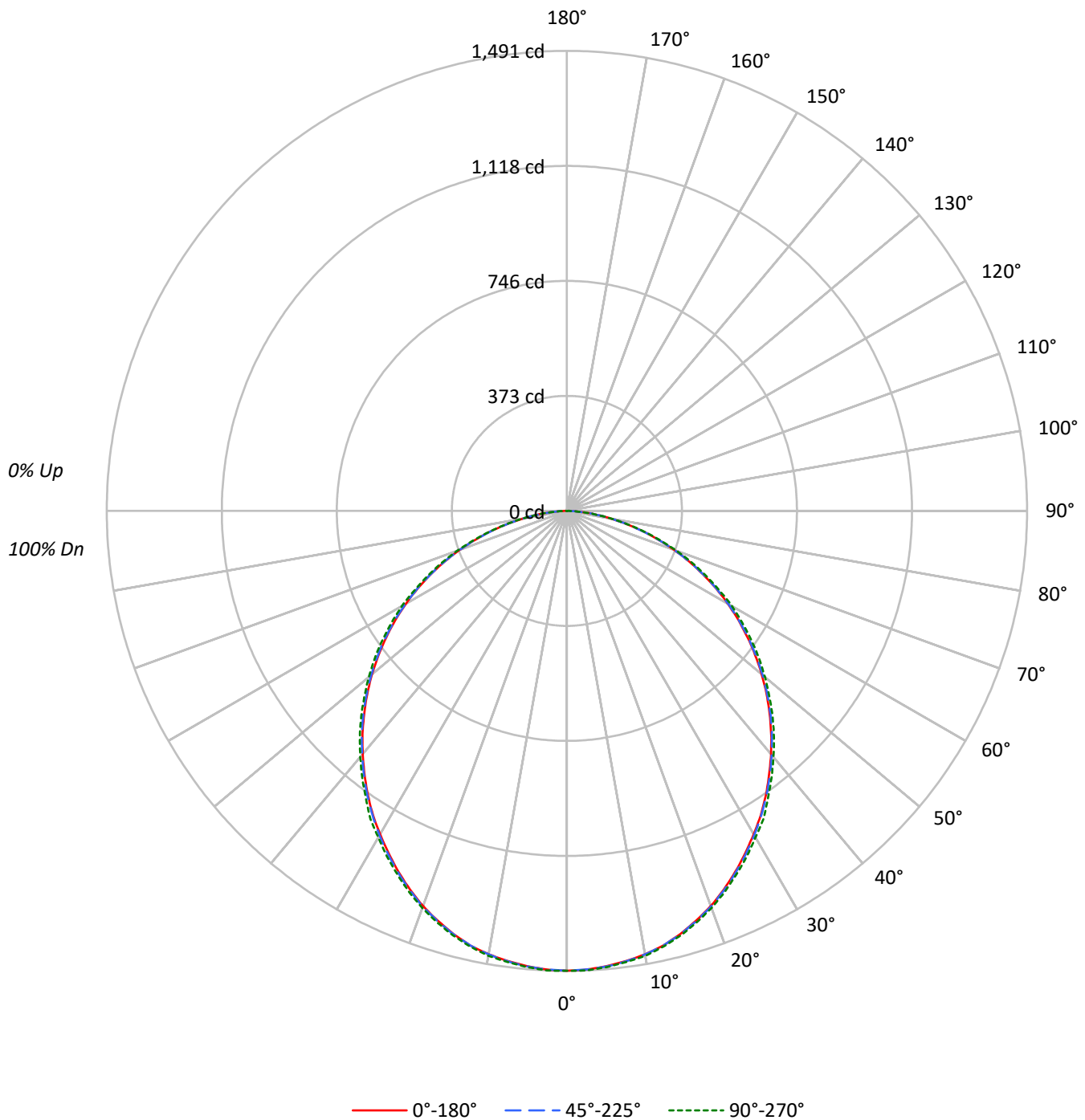
Lumens per Lamp: N/A
Luminaire Lumens: 4027.5 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	4011	4011	4011
5°	4000	4004	4009
10°	3988	3988	4000
15°	3955	3957	3969
20°	3903	3908	3922
25°	3833	3842	3859
30°	3761	3773	3796
35°	3692	3701	3731
40°	3614	3626	3659
45°	3535	3550	3586
50°	3449	3465	3505
55°	3352	3368	3423
60°	3240	3253	3327
65°	3099	3109	3168
70°	2909	2911	2974
75°	2644	2635	2695
80°	2272	2263	2300
85°	1763	1735	1744



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.8	3.5
10°-20°	400.6	9.9
20°-30°	596.4	14.8
30°-40°	705.3	17.5
40°-50°	720.1	17.9
50°-60°	642.6	16.0
60°-70°	484.0	12.0
70°-80°	269.9	6.7
80°-90°	67.6	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°	1137.9	28.3
0°-40°	1843.3	45.8
0°-60°	3205.9	79.6
0°-90°	4027.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4027.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1490	1490	1490	1490	1490	
5°	1481	1484	1482	1482	1484	141
15°	1420	1421	1420	1422	1424	400
25°	1291	1292	1294	1297	1300	595
35°	1124	1123	1127	1131	1136	703
45°	929	929	933	938	942	717
55°	714	714	718	723	730	639
65°	487	485	488	492	498	481
75°	254	252	253	255	259	270
85°	57	56	56	56	56	69
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1490.5	1490.5	1490.5	1490.5	1490.5
2.5°	1488.0	1490.5	1487.4	1488.0	1490.8
5°	1480.9	1483.7	1482.2	1482.5	1484.0
7.5°	1471.1	1474.8	1472.6	1473.2	1474.8
10°	1459.3	1462.1	1459.6	1461.2	1464.0
12.5°	1442.7	1443.9	1442.7	1443.3	1446.4
15°	1419.5	1421.1	1420.5	1421.7	1424.5
17.5°	1392.4	1394.2	1393.9	1396.4	1398.5
20°	1363.1	1363.4	1364.6	1367.1	1369.5
22.5°	1328.5	1329.4	1330.7	1334.0	1336.5
25°	1290.8	1292.4	1293.9	1297.3	1299.8
27.5°	1251.0	1252.6	1254.7	1258.4	1262.5
30°	1210.3	1210.3	1214.3	1218.0	1221.7
32.5°	1169.3	1167.7	1171.4	1176.0	1185.0
35°	1123.9	1122.7	1126.7	1131.0	1135.6
37.5°	1076.7	1075.8	1080.4	1085.0	1089.3
40°	1028.8	1027.6	1032.2	1036.9	1041.5
42.5°	979.8	979.2	983.5	988.1	993.1
45°	928.9	928.6	932.9	937.5	942.4
47.5°	877.0	876.4	880.7	885.7	890.0
50°	823.9	823.3	827.6	832.6	837.2
52.5°	769.3	769.3	773.3	777.7	784.8
55°	714.4	713.5	717.8	722.7	729.5
57.5°	658.8	657.6	661.6	666.6	672.7
60°	602.1	600.8	604.5	609.5	618.1
62.5°	544.7	542.8	546.5	551.1	556.4
65°	486.7	484.8	488.2	492.5	497.5
67.5°	428.3	426.2	429.6	433.3	437.9
70°	369.7	367.5	370.0	373.7	378.0
72.5°	311.4	309.2	311.4	312.9	318.2
75°	254.3	252.1	253.4	254.6	259.2
77.5°	198.7	196.6	199.0	199.7	202.4
80°	146.6	144.4	146.0	146.3	148.4
82.5°	99.1	97.2	99.4	97.8	99.7
85°	57.1	55.5	56.2	55.5	56.5
87.5°	22.5	21.3	21.6	20.4	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)