

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: P834480

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-1HI-35-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834480
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-35-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

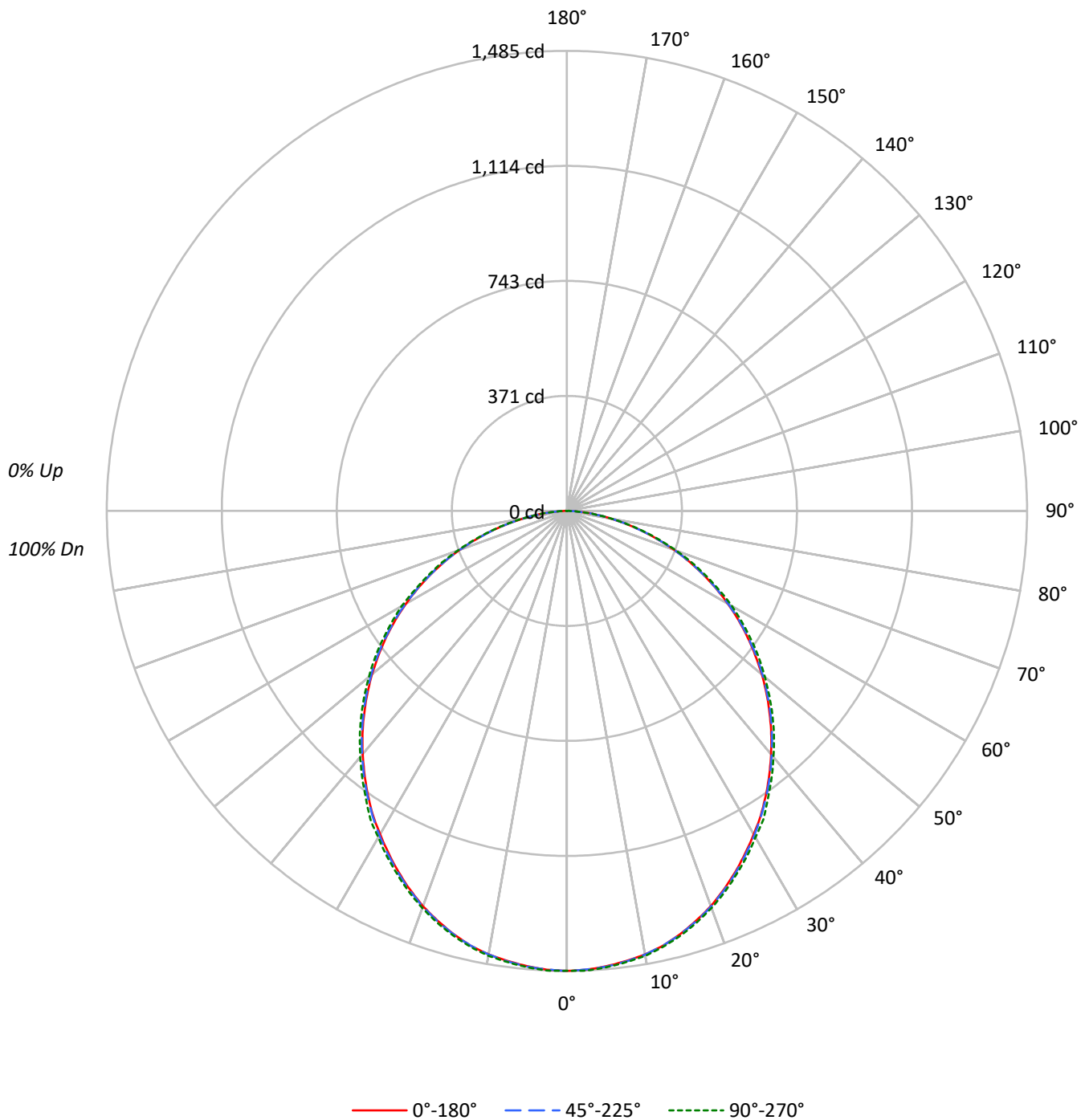
Lumens per Lamp: N/A
Luminaire Lumens: 4012.1 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	27	27	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3996	3996	3996
5°	3985	3988	3994
10°	3972	3973	3985
15°	3940	3942	3953
20°	3889	3893	3907
25°	3818	3827	3844
30°	3746	3759	3782
35°	3678	3687	3716
40°	3600	3612	3645
45°	3521	3537	3573
50°	3436	3452	3491
55°	3339	3354	3409
60°	3228	3241	3314
65°	3087	3096	3156
70°	2898	2900	2963
75°	2634	2624	2685
80°	2263	2253	2292
85°	1757	1726	1738

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.3	3.5
10°-20°	399.1	9.9
20°-30°	594.2	14.8
30°-40°	702.7	17.5
40°-50°	717.3	17.9
50°-60°	640.2	16.0
60°-70°	482.1	12.0
70°-80°	268.9	6.7
80°-90°	67.4	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°	1133.6	28.3
0°-40°	1836.3	45.8
0°-60°	3193.7	79.6
0°-90°	4012.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4012.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1485	1485	1485	1485	1485	
5°	1475	1478	1476	1477	1478	140
15°	1414	1416	1415	1416	1419	399
25°	1286	1288	1289	1292	1295	592
35°	1120	1118	1122	1127	1131	700
45°	925	925	929	934	939	714
55°	712	711	715	720	727	636
65°	485	483	486	491	496	479
75°	253	251	252	254	258	269
85°	57	55	56	55	56	68
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1484.8	1484.8	1484.8	1484.8	1484.8
2.5°	1482.4	1484.8	1481.7	1482.4	1485.1
5°	1475.3	1478.1	1476.5	1476.8	1478.4
7.5°	1465.4	1469.1	1467.0	1467.6	1469.1
10°	1453.8	1456.5	1454.1	1455.6	1458.4
12.5°	1437.2	1438.4	1437.2	1437.8	1440.9
15°	1414.1	1415.6	1415.0	1416.3	1419.0
17.5°	1387.1	1388.9	1388.6	1391.1	1393.2
20°	1357.9	1358.2	1359.4	1361.8	1364.3
22.5°	1323.4	1324.3	1325.6	1329.0	1331.4
25°	1285.9	1287.5	1289.0	1292.4	1294.8
27.5°	1246.3	1247.8	1250.0	1253.6	1257.6
30°	1205.7	1205.7	1209.7	1213.4	1217.1
32.5°	1164.8	1163.3	1166.9	1171.6	1180.5
35°	1119.6	1118.4	1122.4	1126.7	1131.3
37.5°	1072.6	1071.6	1076.3	1080.9	1085.2
40°	1024.9	1023.7	1028.3	1032.9	1037.5
42.5°	976.0	975.4	979.7	984.3	989.3
45°	925.3	925.0	929.3	933.9	938.8
47.5°	873.7	873.1	877.4	882.3	886.6
50°	820.8	820.2	824.5	829.4	834.0
52.5°	766.4	766.4	770.4	774.7	781.8
55°	711.7	710.7	715.0	720.0	726.7
57.5°	656.3	655.1	659.1	664.0	670.2
60°	599.8	598.5	602.2	607.1	615.8
62.5°	542.6	540.7	544.4	549.0	554.3
65°	484.8	482.9	486.3	490.6	495.6
67.5°	426.7	424.5	427.9	431.6	436.2
70°	368.3	366.1	368.6	372.3	376.6
72.5°	310.2	308.0	310.2	311.7	316.9
75°	253.3	251.2	252.4	253.6	258.2
77.5°	198.0	195.8	198.3	198.9	201.7
80°	146.0	143.9	145.4	145.7	147.9
82.5°	98.7	96.8	99.0	97.5	99.3
85°	56.9	55.3	55.9	55.3	56.3
87.5°	22.4	21.2	21.5	20.3	20.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)