

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: P834425

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

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834425
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-LD4-1STD-35-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

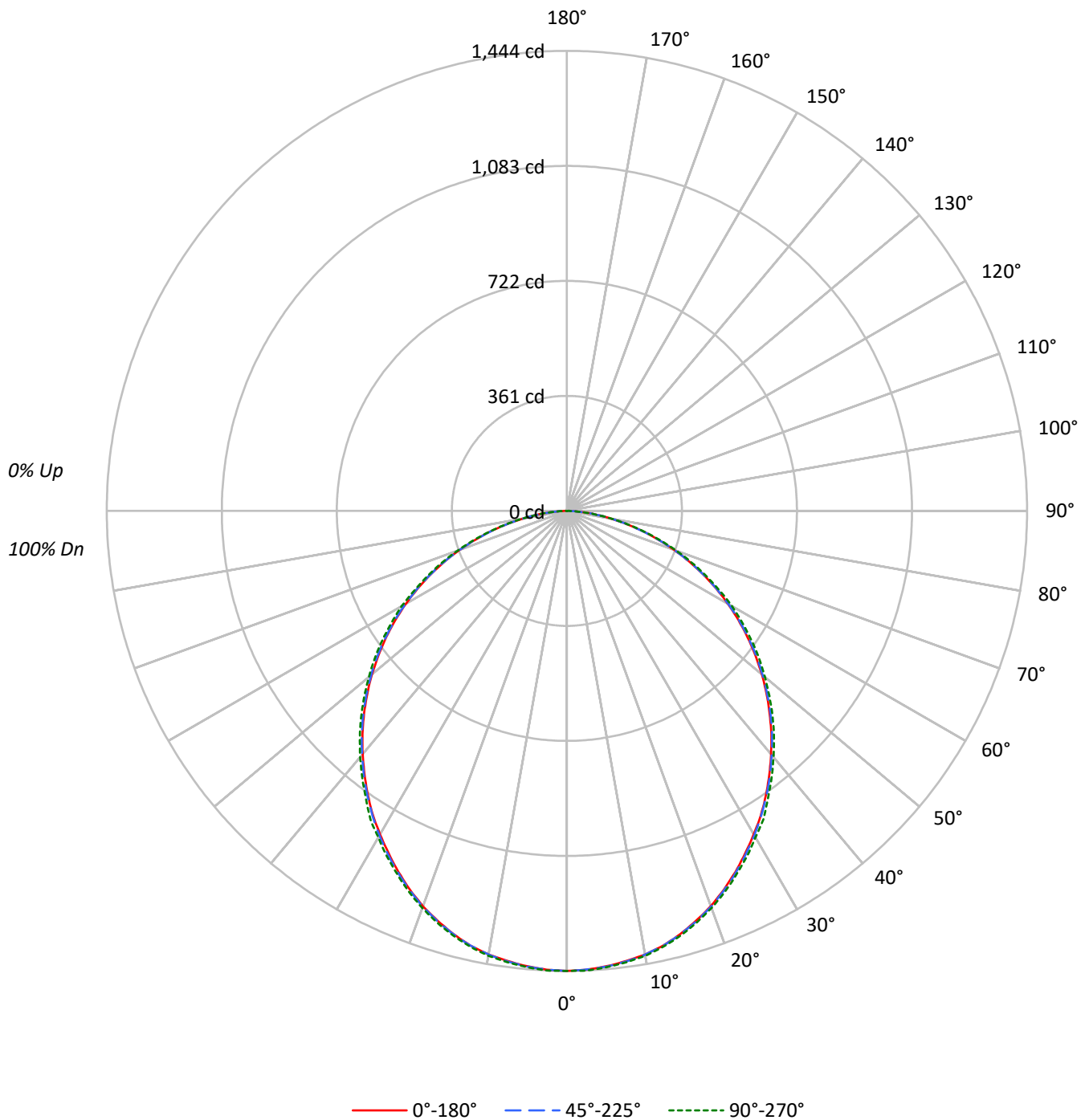
Lumens per Lamp: N/A
Luminaire Lumens: 3901.6 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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

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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°	3886	3886	3886
5°	3875	3879	3883
10°	3863	3864	3875
15°	3831	3834	3845
20°	3781	3786	3799
25°	3713	3722	3739
30°	3643	3655	3677
35°	3577	3586	3614
40°	3501	3513	3544
45°	3424	3439	3475
50°	3342	3357	3395
55°	3247	3263	3316
60°	3139	3152	3223
65°	3002	3011	3068
70°	2817	2820	2881
75°	2561	2551	2611
80°	2201	2191	2228
85°	1707	1680	1689



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.4	3.5
10°-20°	388.1	9.9
20°-30°	577.8	14.8
30°-40°	683.3	17.5
40°-50°	697.6	17.9
50°-60°	622.5	16.0
60°-70°	468.9	12.0
70°-80°	261.5	6.7
80°-90°	65.5	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°	1102.4	28.3
0°-40°	1785.7	45.8
0°-60°	3105.8	79.6
0°-90°	3901.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3901.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1444	1444	1444	1444	1444	
5°	1435	1437	1436	1436	1438	136
15°	1375	1377	1376	1377	1380	388
25°	1250	1252	1254	1257	1259	576
35°	1089	1088	1092	1096	1100	681
45°	900	900	904	908	913	694
55°	692	691	695	700	707	619
65°	471	470	473	477	482	466
75°	246	244	245	247	251	261
85°	55	54	54	54	55	66
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1443.9	1443.9	1443.9	1443.9	1443.9
2.5°	1441.5	1443.9	1440.9	1441.5	1444.2
5°	1434.7	1437.3	1435.9	1436.2	1437.6
7.5°	1425.1	1428.7	1426.6	1427.2	1428.7
10°	1413.7	1416.4	1414.0	1415.5	1418.2
12.5°	1397.6	1398.8	1397.6	1398.2	1401.2
15°	1375.2	1376.7	1376.1	1377.3	1380.0
17.5°	1348.9	1350.7	1350.4	1352.7	1354.8
20°	1320.5	1320.8	1322.0	1324.3	1326.7
22.5°	1287.0	1287.9	1289.1	1292.4	1294.7
25°	1250.5	1252.0	1253.5	1256.8	1259.2
27.5°	1211.9	1213.4	1215.5	1219.1	1223.0
30°	1172.5	1172.5	1176.4	1180.0	1183.5
32.5°	1132.7	1131.2	1134.8	1139.3	1148.0
35°	1088.8	1087.6	1091.5	1095.6	1100.1
37.5°	1043.0	1042.1	1046.6	1051.1	1055.3
40°	996.7	995.5	1000.0	1004.5	1009.0
42.5°	949.2	948.6	952.8	957.2	962.0
45°	899.8	899.5	903.7	908.2	913.0
47.5°	849.6	849.0	853.2	858.0	862.2
50°	798.2	797.6	801.8	806.6	811.0
52.5°	745.3	745.3	749.2	753.4	760.2
55°	692.1	691.2	695.4	700.1	706.7
57.5°	638.3	637.1	640.9	645.7	651.7
60°	583.3	582.1	585.6	590.4	598.8
62.5°	527.6	525.9	529.4	533.9	539.0
65°	471.4	469.6	472.9	477.1	481.9
67.5°	414.9	412.8	416.1	419.7	424.2
70°	358.1	356.0	358.4	362.0	366.2
72.5°	301.6	299.5	301.6	303.1	308.2
75°	246.3	244.2	245.4	246.6	251.1
77.5°	192.5	190.4	192.8	193.4	196.1
80°	142.0	139.9	141.4	141.7	143.8
82.5°	96.0	94.2	96.3	94.8	96.6
85°	55.3	53.8	54.4	53.8	54.7
87.5°	21.8	20.6	20.9	19.7	19.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)