

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: P835736

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-3STD-30-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835736
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-LD4-3STD-30-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

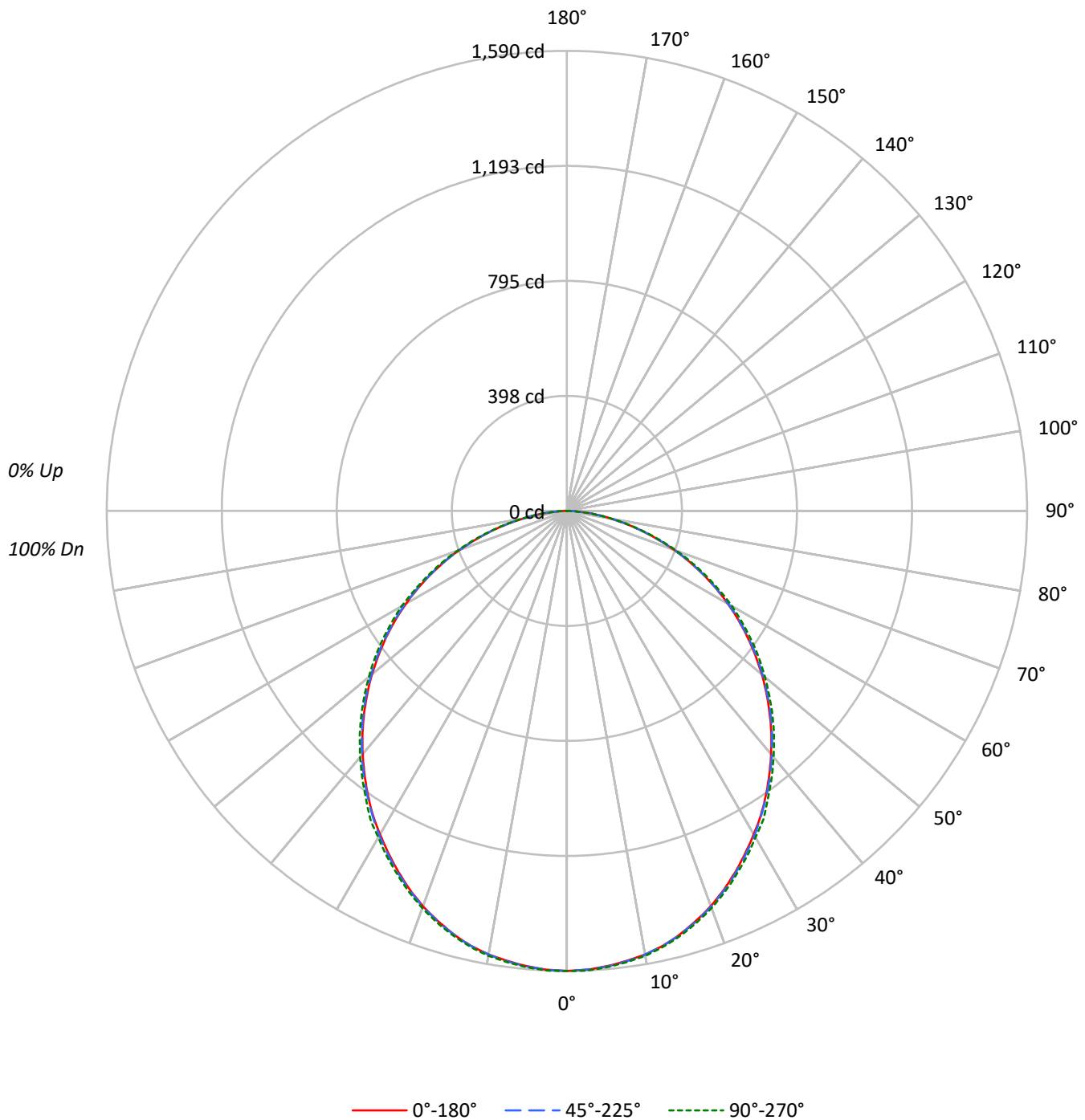
Lumens per Lamp: N/A
Luminaire Lumens: 4296.3 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	95	98	94	92		94	91	89		90
2	99	91	84	78	96	89	83	77	85	80	76		82	78	74		79
3	90	80	72	65	88	78	71	65	75	69	64		73	67	62		70
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		56
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51
7	65	52	43	37	64	51	43	37	49	42	36		48	41	36		47
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		43
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		40
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4279	4279	4279
5°	4267	4271	4276
10°	4254	4255	4267
15°	4219	4221	4233
20°	4164	4169	4184
25°	4089	4098	4117
30°	4012	4025	4050
35°	3938	3948	3980
40°	3855	3868	3903
45°	3771	3787	3826
50°	3679	3696	3739
55°	3575	3592	3651
60°	3456	3471	3549
65°	3305	3316	3379
70°	3103	3105	3173
75°	2821	2810	2875
80°	2424	2413	2453
85°	1880	1849	1859

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.2	3.5
10°-20°	427.4	9.9
20°-30°	636.2	14.8
30°-40°	752.4	17.5
40°-50°	768.1	17.9
50°-60°	685.5	16.0
60°-70°	516.3	12.0
70°-80°	287.9	6.7
80°-90°	72.1	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°	1213.9	28.3
0°-40°	1966.3	45.8
0°-60°	3419.9	79.6
0°-90°	4296.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4296.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1590	1590	1590	1590	1590	
5°	1580	1583	1581	1581	1583	150
15°	1514	1516	1515	1517	1520	427
25°	1377	1379	1380	1384	1386	634
35°	1199	1198	1202	1206	1211	750
45°	991	990	995	1000	1005	764
55°	762	761	766	771	778	681
65°	519	517	521	525	531	513
75°	271	269	270	272	276	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°	1590.0	1590.0	1590.0	1590.0	1590.0
2.5°	1587.3	1590.0	1586.7	1587.3	1590.3
5°	1579.8	1582.7	1581.1	1581.4	1583.1
7.5°	1569.2	1573.2	1570.9	1571.5	1573.2
10°	1556.7	1559.7	1557.1	1558.7	1561.7
12.5°	1539.0	1540.3	1539.0	1539.6	1542.9
15°	1514.3	1515.9	1515.3	1516.6	1519.5
17.5°	1485.3	1487.3	1486.9	1489.6	1491.9
20°	1454.0	1454.4	1455.7	1458.3	1460.9
22.5°	1417.2	1418.1	1419.5	1423.1	1425.7
25°	1377.0	1378.6	1380.3	1383.9	1386.5
27.5°	1334.5	1336.2	1338.5	1342.4	1346.7
30°	1291.1	1291.1	1295.4	1299.3	1303.3
32.5°	1247.3	1245.7	1249.6	1254.5	1264.1
35°	1198.9	1197.6	1201.9	1206.5	1211.4
37.5°	1148.5	1147.6	1152.5	1157.4	1162.0
40°	1097.5	1096.2	1101.1	1106.1	1111.0
42.5°	1045.2	1044.5	1049.1	1054.1	1059.3
45°	990.9	990.5	995.1	1000.1	1005.3
47.5°	935.6	934.9	939.5	944.8	949.4
50°	878.9	878.3	882.9	888.2	893.1
52.5°	820.7	820.7	824.9	829.6	837.1
55°	762.1	761.1	765.7	771.0	778.2
57.5°	702.8	701.5	705.8	711.0	717.6
60°	642.2	640.9	644.9	650.1	659.4
62.5°	581.0	579.0	583.0	587.9	593.5
65°	519.1	517.2	520.8	525.4	530.7
67.5°	456.9	454.6	458.2	462.2	467.1
70°	394.4	392.1	394.7	398.6	403.3
72.5°	332.2	329.8	332.2	333.8	339.4
75°	271.3	268.9	270.3	271.6	276.5
77.5°	212.0	209.7	212.3	213.0	215.9
80°	156.4	154.1	155.7	156.0	158.3
82.5°	105.7	103.7	106.0	104.4	106.3
85°	60.9	59.3	59.9	59.3	60.2
87.5°	24.0	22.7	23.0	21.7	21.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)