

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: P835595

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-4STD-20-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835595
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-LD4-4STD-20-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

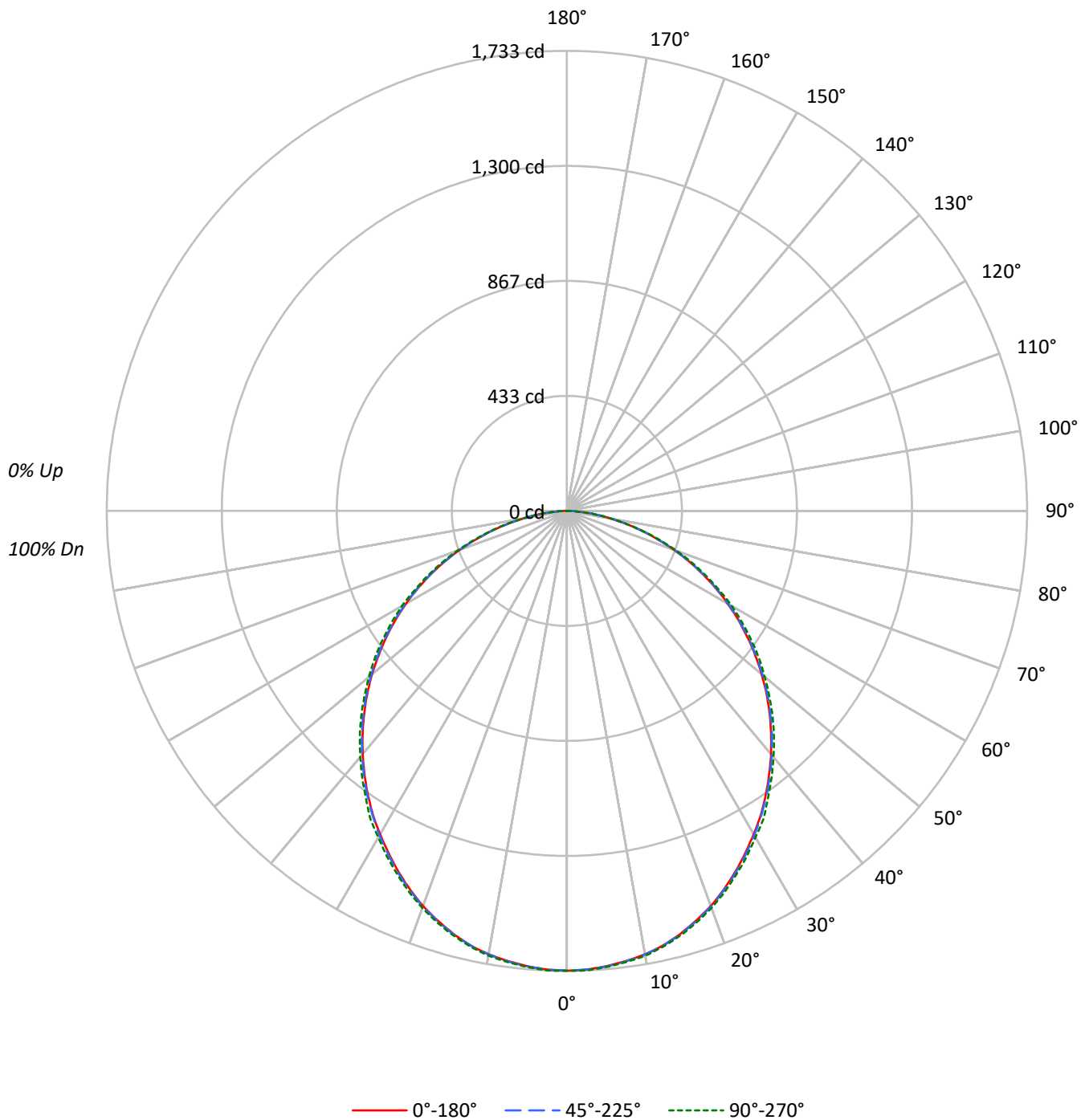
Lumens per Lamp: N/A
Luminaire Lumens: 4681.0 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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°	4662	4662	4662
5°	4649	4653	4659
10°	4635	4636	4649
15°	4596	4599	4612
20°	4537	4542	4558
25°	4455	4465	4486
30°	4371	4385	4412
35°	4291	4302	4336
40°	4201	4214	4252
45°	4109	4126	4169
50°	4009	4027	4073
55°	3895	3914	3978
60°	3766	3781	3866
65°	3601	3613	3682
70°	3381	3383	3457
75°	3072	3062	3133
80°	2641	2628	2673
85°	2050	2016	2025

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.7	3.5
10°-20°	465.6	9.9
20°-30°	693.2	14.8
30°-40°	819.8	17.5
40°-50°	836.9	17.9
50°-60°	746.9	16.0
60°-70°	562.5	12.0
70°-80°	313.7	6.7
80°-90°	78.6	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°	1322.6	28.3
0°-40°	2142.3	45.8
0°-60°	3726.1	79.6
0°-90°	4681.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4681.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1732	1732	1732	1732	1732	
5°	1721	1724	1723	1723	1725	163
15°	1650	1652	1651	1652	1656	465
25°	1500	1502	1504	1508	1511	691
35°	1306	1305	1310	1314	1320	817
45°	1080	1079	1084	1090	1095	833
55°	830	829	834	840	848	742
65°	566	564	567	572	578	559
75°	296	293	294	296	301	313
85°	66	65	65	65	66	80
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1732.3	1732.3	1732.3	1732.3	1732.3
2.5°	1729.5	1732.3	1728.7	1729.5	1732.7
5°	1721.2	1724.4	1722.6	1723.0	1724.8
7.5°	1709.7	1714.0	1711.5	1712.2	1714.0
10°	1696.1	1699.3	1696.5	1698.3	1701.5
12.5°	1676.7	1678.2	1676.7	1677.5	1681.0
15°	1649.8	1651.6	1650.9	1652.4	1655.6
17.5°	1618.3	1620.4	1620.1	1622.9	1625.5
20°	1584.2	1584.6	1586.0	1588.9	1591.7
22.5°	1544.0	1545.1	1546.5	1550.5	1553.4
25°	1500.3	1502.1	1503.9	1507.8	1510.7
27.5°	1454.0	1455.8	1458.3	1462.6	1467.3
30°	1406.7	1406.7	1411.3	1415.6	1419.9
32.5°	1359.0	1357.2	1361.5	1366.9	1377.3
35°	1306.2	1304.8	1309.5	1314.5	1319.9
37.5°	1251.4	1250.3	1255.7	1261.1	1266.1
40°	1195.8	1194.3	1199.7	1205.1	1210.5
42.5°	1138.7	1138.0	1143.1	1148.4	1154.2
45°	1079.6	1079.2	1084.2	1089.6	1095.4
47.5°	1019.3	1018.6	1023.6	1029.4	1034.4
50°	957.6	956.9	961.9	967.7	973.0
52.5°	894.1	894.1	898.8	903.8	912.1
55°	830.3	829.2	834.2	840.0	847.9
57.5°	765.7	764.3	769.0	774.7	781.9
60°	699.7	698.3	702.6	708.4	718.4
62.5°	633.0	630.9	635.2	640.6	646.7
65°	565.6	563.5	567.4	572.4	578.2
67.5°	497.8	495.3	499.3	503.6	508.9
70°	429.7	427.2	430.0	434.3	439.4
72.5°	361.9	359.4	361.9	363.7	369.8
75°	295.5	293.0	294.5	295.9	301.3
77.5°	231.0	228.5	231.3	232.1	235.3
80°	170.4	167.9	169.6	170.0	172.5
82.5°	115.1	113.0	115.5	113.7	115.8
85°	66.4	64.6	65.3	64.6	65.6
87.5°	26.2	24.7	25.1	23.7	23.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)