

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: P835597

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-5LO-20-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835597
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-LD4-5LO-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

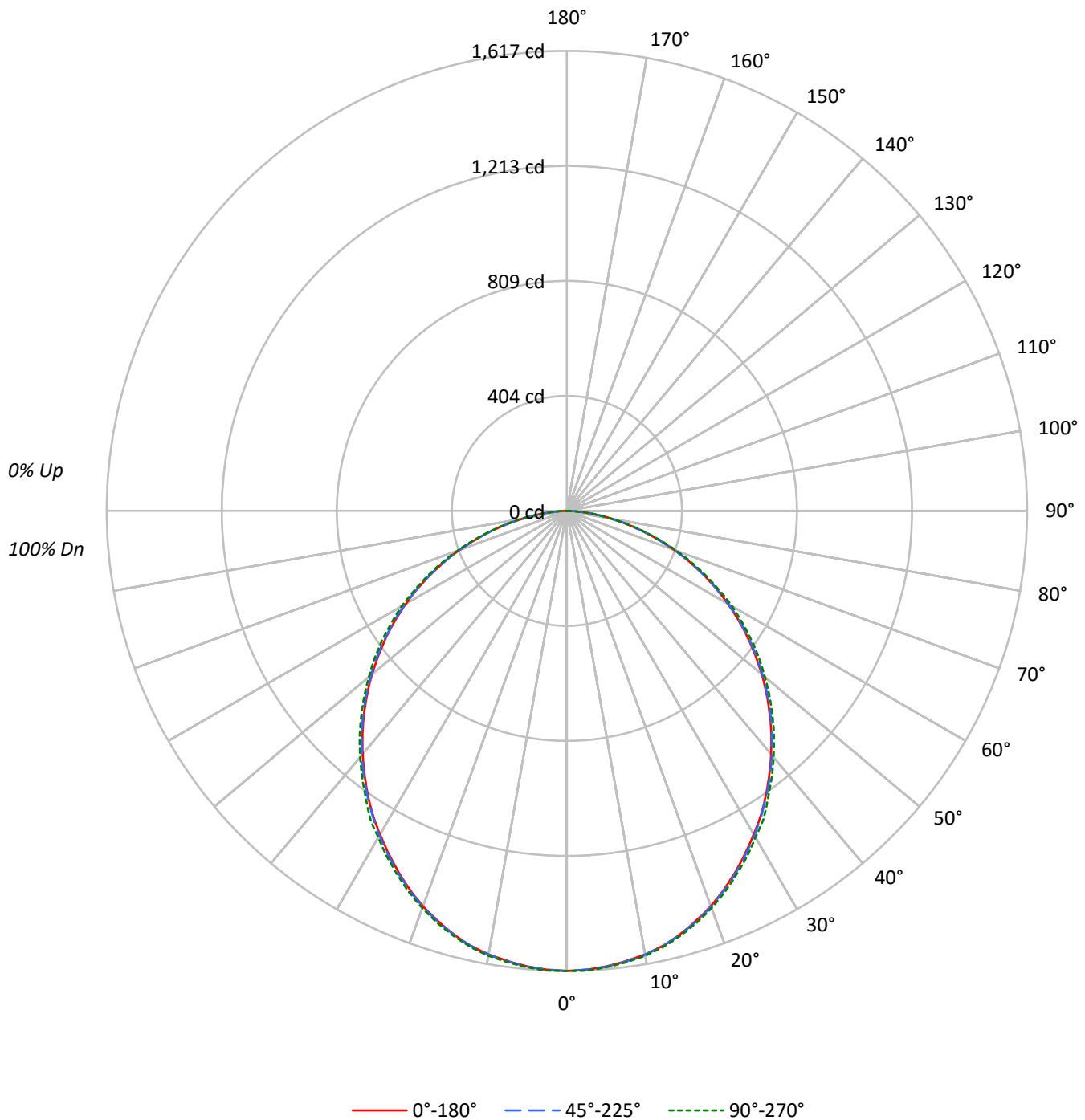
Lumens per Lamp: N/A
Luminaire Lumens: 4369.5 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 58.5
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°	4352	4352	4352
5°	4340	4344	4349
10°	4326	4327	4340
15°	4291	4293	4305
20°	4235	4240	4255
25°	4158	4168	4187
30°	4080	4094	4119
35°	4005	4016	4048
40°	3921	3934	3969
45°	3835	3852	3891
50°	3742	3759	3803
55°	3636	3653	3713
60°	3515	3530	3609
65°	3362	3373	3436
70°	3156	3158	3227
75°	2869	2858	2924
80°	2464	2455	2495
85°	1911	1880	1893

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.8	3.5
10°-20°	434.7	9.9
20°-30°	647.1	14.8
30°-40°	765.2	17.5
40°-50°	781.2	17.9
50°-60°	697.2	16.0
60°-70°	525.1	12.0
70°-80°	292.8	6.7
80°-90°	73.4	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°	1234.6	28.3
0°-40°	1999.8	45.8
0°-60°	3478.2	79.6
0°-90°	4369.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4369.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1617	1617	1617	1617	1617	
5°	1607	1610	1608	1608	1610	153
15°	1540	1542	1541	1542	1545	434
25°	1400	1402	1404	1408	1410	645
35°	1219	1218	1222	1227	1232	763
45°	1008	1007	1012	1017	1022	777
55°	775	774	779	784	792	693
65°	528	526	530	534	540	522
75°	276	274	275	276	281	292
85°	62	60	61	60	61	74
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1617.1	1617.1	1617.1	1617.1	1617.1
2.5°	1614.4	1617.1	1613.7	1614.4	1617.4
5°	1606.7	1609.7	1608.0	1608.4	1610.1
7.5°	1596.0	1600.0	1597.7	1598.3	1600.0
10°	1583.3	1586.3	1583.6	1585.3	1588.3
12.5°	1565.2	1566.5	1565.2	1565.9	1569.2
15°	1540.1	1541.8	1541.1	1542.4	1545.4
17.5°	1510.6	1512.6	1512.3	1515.0	1517.3
20°	1478.8	1479.1	1480.5	1483.2	1485.8
22.5°	1441.3	1442.3	1443.7	1447.3	1450.0
25°	1400.5	1402.1	1403.8	1407.5	1410.2
27.5°	1357.3	1359.0	1361.3	1365.3	1369.7
30°	1313.1	1313.1	1317.4	1321.5	1325.5
32.5°	1268.6	1266.9	1270.9	1275.9	1285.6
35°	1219.3	1218.0	1222.4	1227.0	1232.1
37.5°	1168.1	1167.1	1172.1	1177.2	1181.8
40°	1116.2	1114.9	1119.9	1124.9	1129.9
42.5°	1063.0	1062.3	1067.0	1072.0	1077.4
45°	1007.7	1007.4	1012.1	1017.1	1022.5
47.5°	951.5	950.8	955.5	960.9	965.6
50°	893.9	893.2	897.9	903.3	908.3
52.5°	834.7	834.7	839.0	843.7	851.4
55°	775.1	774.1	778.7	784.1	791.5
57.5°	714.8	713.5	717.8	723.2	729.9
60°	653.2	651.9	655.9	661.2	670.6
62.5°	590.9	588.9	592.9	598.0	603.6
65°	528.0	526.0	529.7	534.3	539.7
67.5°	464.7	462.4	466.0	470.1	475.1
70°	401.1	398.7	401.4	405.4	410.1
72.5°	337.8	335.5	337.8	339.5	345.2
75°	275.9	273.5	274.9	276.2	281.2
77.5°	215.6	213.3	215.9	216.6	219.6
80°	159.0	156.7	158.4	158.7	161.0
82.5°	107.5	105.5	107.8	106.1	108.1
85°	61.9	60.3	60.9	60.3	61.3
87.5°	24.4	23.1	23.4	22.1	22.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)