

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: P835772

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-3STD-40-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835772
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-40-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

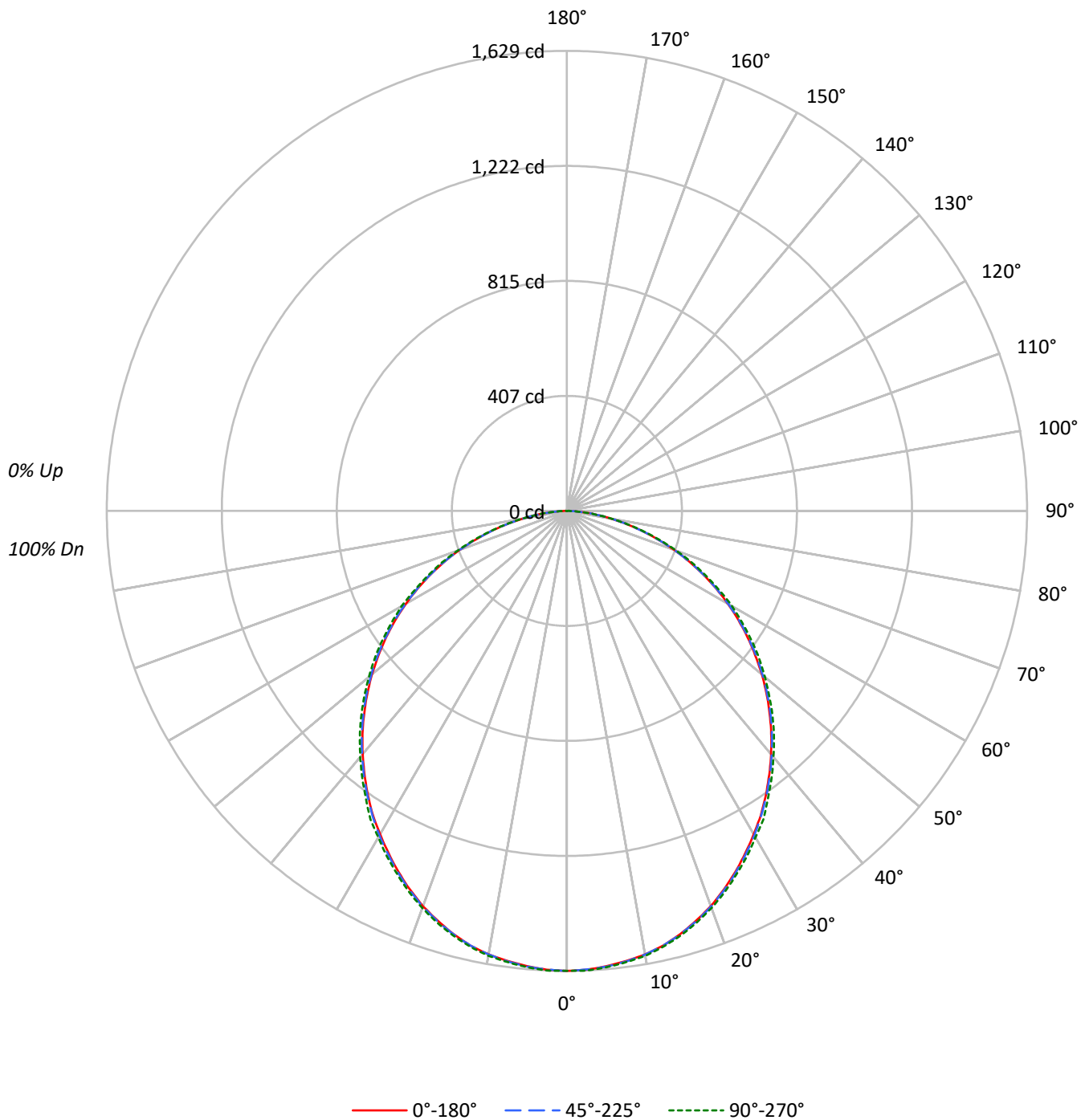
Lumens per Lamp: N/A
Luminaire Lumens: 4401.1 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

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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°	4383	4383	4383
5°	4371	4375	4381
10°	4358	4358	4371
15°	4321	4324	4337
20°	4265	4270	4286
25°	4188	4198	4217
30°	4110	4123	4148
35°	4034	4045	4077
40°	3949	3962	3998
45°	3863	3879	3919
50°	3769	3786	3830
55°	3663	3680	3740
60°	3541	3555	3635
65°	3386	3397	3461
70°	3179	3181	3250
75°	2889	2879	2946
80°	2483	2472	2514
85°	1927	1896	1905

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.9	3.5
10°-20°	437.8	9.9
20°-30°	651.8	14.8
30°-40°	770.8	17.5
40°-50°	786.9	17.9
50°-60°	702.2	16.0
60°-70°	528.9	12.0
70°-80°	295.0	6.7
80°-90°	73.9	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°	1243.5	28.3
0°-40°	2014.3	45.8
0°-60°	3503.3	79.6
0°-90°	4401.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4401.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1629	1629	1629	1629	1629	
5°	1618	1621	1620	1620	1622	154
15°	1551	1553	1552	1554	1557	437
25°	1411	1412	1414	1418	1420	650
35°	1228	1227	1231	1236	1241	768
45°	1015	1015	1019	1024	1030	783
55°	781	780	784	790	797	698
65°	532	530	534	538	544	526
75°	278	276	277	278	283	295
85°	62	61	61	61	62	75
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1628.8	1628.8	1628.8	1628.8	1628.8
2.5°	1626.1	1628.8	1625.4	1626.1	1629.1
5°	1618.3	1621.3	1619.7	1620.0	1621.7
7.5°	1607.5	1611.6	1609.2	1609.9	1611.6
10°	1594.7	1597.7	1595.0	1596.7	1599.8
12.5°	1576.5	1577.8	1576.5	1577.2	1580.5
15°	1551.2	1552.9	1552.2	1553.6	1556.6
17.5°	1521.5	1523.6	1523.2	1525.9	1528.3
20°	1489.5	1489.8	1491.2	1493.9	1496.6
22.5°	1451.7	1452.7	1454.1	1457.8	1460.5
25°	1410.6	1412.3	1414.0	1417.7	1420.4
27.5°	1367.1	1368.8	1371.1	1375.2	1379.6
30°	1322.6	1322.6	1327.0	1331.0	1335.0
32.5°	1277.7	1276.0	1280.1	1285.1	1294.9
35°	1228.1	1226.8	1231.2	1235.9	1241.0
37.5°	1176.6	1175.5	1180.6	1185.7	1190.4
40°	1124.3	1122.9	1128.0	1133.1	1138.1
42.5°	1070.7	1070.0	1074.7	1079.8	1085.2
45°	1015.0	1014.7	1019.4	1024.5	1029.9
47.5°	958.4	957.7	962.4	967.8	972.5
50°	900.4	899.7	904.4	909.8	914.9
52.5°	840.7	840.7	845.1	849.8	857.5
55°	780.7	779.6	784.4	789.8	797.2
57.5°	720.0	718.6	723.0	728.4	735.1
60°	657.9	656.6	660.6	666.0	675.4
62.5°	595.2	593.2	597.2	602.3	608.0
65°	531.8	529.8	533.5	538.2	543.6
67.5°	468.1	465.7	469.4	473.5	478.5
70°	404.0	401.6	404.3	408.4	413.1
72.5°	340.3	337.9	340.3	341.9	347.7
75°	277.9	275.5	276.9	278.2	283.3
77.5°	217.2	214.8	217.5	218.2	221.2
80°	160.2	157.8	159.5	159.8	162.2
82.5°	108.2	106.2	108.6	106.9	108.9
85°	62.4	60.7	61.4	60.7	61.7
87.5°	24.6	23.3	23.6	22.3	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)