

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: P835774

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-4LO-40-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835774
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-LD4-4LO-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

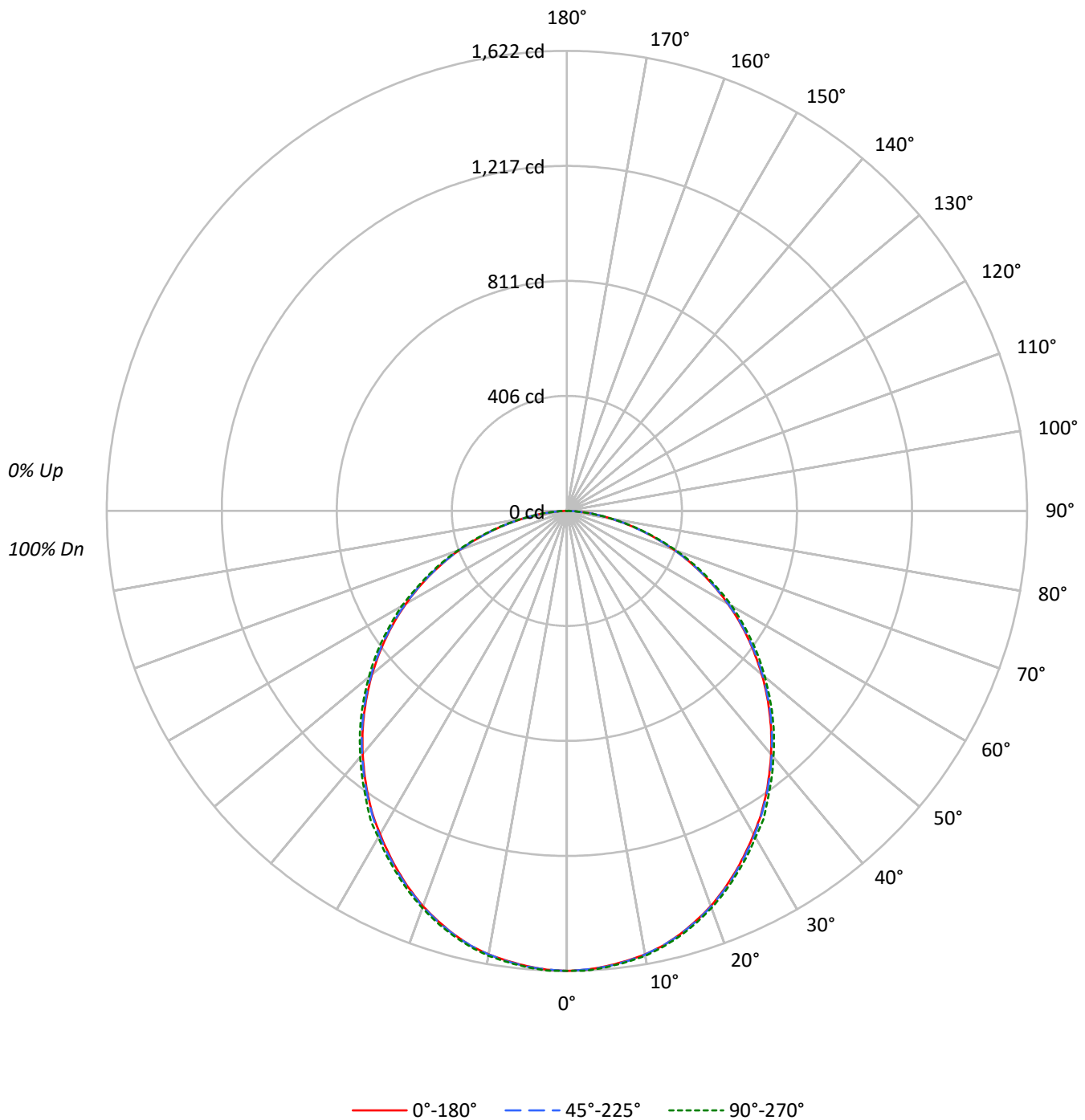
Lumens per Lamp: N/A
Luminaire Lumens: 4382.2 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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°	4364	4364	4364
5°	4353	4356	4362
10°	4339	4340	4353
15°	4303	4306	4318
20°	4247	4252	4267
25°	4170	4180	4199
30°	4092	4106	4131
35°	4017	4027	4059
40°	3933	3946	3981
45°	3846	3863	3903
50°	3753	3770	3814
55°	3647	3664	3724
60°	3526	3540	3620
65°	3372	3382	3447
70°	3165	3168	3236
75°	2877	2866	2932
80°	2472	2461	2503
85°	1917	1886	1896

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.3	3.5
10°-20°	435.9	9.9
20°-30°	649.0	14.8
30°-40°	767.5	17.5
40°-50°	783.5	17.9
50°-60°	699.2	16.0
60°-70°	526.6	12.0
70°-80°	293.7	6.7
80°-90°	73.6	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°	1238.2	28.3
0°-40°	2005.6	45.8
0°-60°	3488.3	79.6
0°-90°	4382.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4382.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1622	1622	1622	1622	1622	
5°	1611	1614	1613	1613	1615	153
15°	1545	1546	1546	1547	1550	435
25°	1404	1406	1408	1412	1414	647
35°	1223	1222	1226	1231	1236	765
45°	1011	1010	1015	1020	1026	780
55°	777	776	781	786	794	695
65°	530	528	531	536	541	524
75°	277	274	276	277	282	293
85°	62	60	61	60	61	75
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1621.8	1621.8	1621.8	1621.8	1621.8
2.5°	1619.1	1621.8	1618.4	1619.1	1622.1
5°	1611.4	1614.4	1612.7	1613.1	1614.7
7.5°	1600.6	1604.7	1602.3	1603.0	1604.7
10°	1587.9	1590.9	1588.2	1589.9	1592.9
12.5°	1569.7	1571.1	1569.7	1570.4	1573.8
15°	1544.6	1546.2	1545.6	1546.9	1549.9
17.5°	1515.0	1517.0	1516.7	1519.4	1521.7
20°	1483.1	1483.4	1484.8	1487.5	1490.2
22.5°	1445.5	1446.5	1447.9	1451.5	1454.2
25°	1404.5	1406.2	1407.9	1411.6	1414.3
27.5°	1361.2	1362.9	1365.3	1369.3	1373.6
30°	1316.9	1316.9	1321.3	1325.3	1329.3
32.5°	1272.2	1270.6	1274.6	1279.6	1289.4
35°	1222.9	1221.5	1225.9	1230.6	1235.6
37.5°	1171.5	1170.5	1175.5	1180.6	1185.3
40°	1119.5	1118.1	1123.2	1128.2	1133.2
42.5°	1066.1	1065.4	1070.1	1075.1	1080.5
45°	1010.7	1010.3	1015.0	1020.1	1025.5
47.5°	954.3	953.6	958.3	963.7	968.4
50°	896.5	895.8	900.5	905.9	911.0
52.5°	837.1	837.1	841.4	846.1	853.9
55°	777.3	776.3	781.0	786.4	793.8
57.5°	716.9	715.5	719.9	725.3	732.0
60°	655.1	653.8	657.8	663.2	672.6
62.5°	592.6	590.6	594.7	599.7	605.4
65°	529.5	527.5	531.2	535.9	541.3
67.5°	466.1	463.7	467.4	471.4	476.5
70°	402.3	399.9	402.6	406.6	411.3
72.5°	338.8	336.4	338.8	340.5	346.2
75°	276.7	274.3	275.7	277.0	282.0
77.5°	216.2	213.9	216.6	217.2	220.3
80°	159.5	157.1	158.8	159.2	161.5
82.5°	107.8	105.8	108.1	106.4	108.5
85°	62.1	60.4	61.1	60.4	61.4
87.5°	24.5	23.2	23.5	22.2	22.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)