

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: P835739

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-4STD-30-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835739
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-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

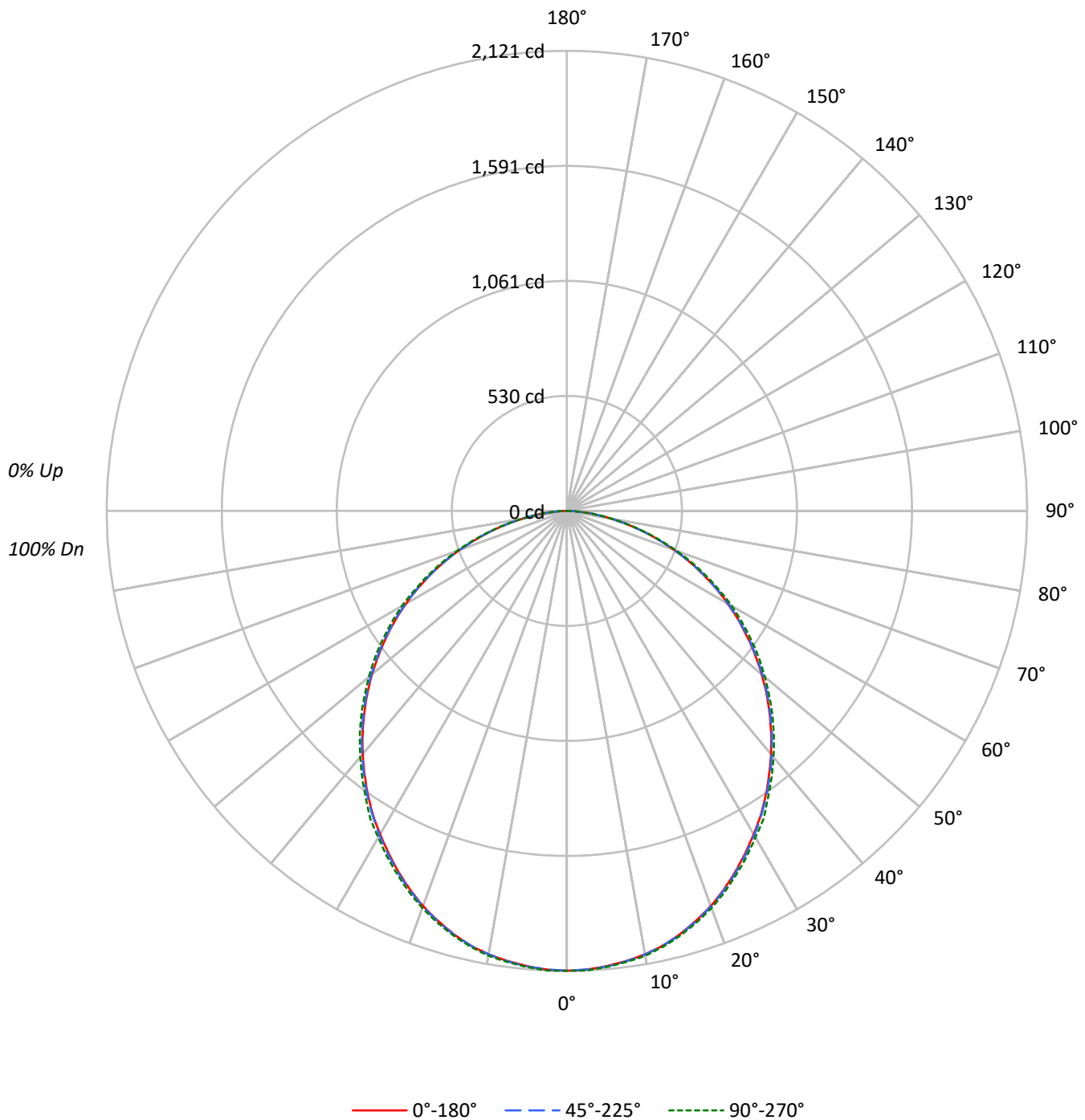
Lumens per Lamp: N/A
Luminaire Lumens: 5728.9 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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	27	27	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5705	5705	5705
5°	5690	5695	5702
10°	5672	5673	5690
15°	5625	5629	5645
20°	5552	5559	5579
25°	5452	5465	5490
30°	5349	5367	5400
35°	5252	5265	5307
40°	5141	5158	5204
45°	5028	5050	5102
50°	4906	4929	4986
55°	4768	4790	4868
60°	4609	4628	4732
65°	4408	4422	4506
70°	4138	4141	4231
75°	3761	3747	3833
80°	3231	3217	3271
85°	2507	2467	2479

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.3	3.5
10°-20°	569.9	9.9
20°-30°	848.4	14.8
30°-40°	1003.3	17.5
40°-50°	1024.2	17.9
50°-60°	914.1	16.0
60°-70°	688.5	12.0
70°-80°	383.9	6.7
80°-90°	96.2	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°	1618.7	28.3
0°-40°	2622.0	45.8
0°-60°	4560.3	79.6
0°-90°	5728.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5728.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2120	2120	2120	2120	2120	
5°	2107	2110	2108	2109	2111	200
15°	2019	2021	2020	2022	2026	569
25°	1836	1838	1841	1845	1849	846
35°	1599	1597	1603	1609	1615	1000
45°	1321	1321	1327	1334	1341	1019
55°	1016	1015	1021	1028	1038	908
65°	692	690	694	701	708	685
75°	362	359	360	362	369	383
85°	81	79	80	79	80	97
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2120.2	2120.2	2120.2	2120.2	2120.2
2.5°	2116.7	2120.2	2115.8	2116.7	2120.6
5°	2106.6	2110.5	2108.3	2108.8	2111.0
7.5°	2092.5	2097.8	2094.7	2095.6	2097.8
10°	2075.8	2079.8	2076.3	2078.5	2082.4
12.5°	2052.1	2053.9	2052.1	2053.0	2057.4
15°	2019.2	2021.4	2020.5	2022.3	2026.2
17.5°	1980.6	1983.2	1982.8	1986.3	1989.4
20°	1938.9	1939.3	1941.1	1944.6	1948.1
22.5°	1889.7	1891.0	1892.8	1897.6	1901.1
25°	1836.2	1838.4	1840.6	1845.4	1848.9
27.5°	1779.5	1781.7	1784.8	1790.1	1795.8
30°	1721.6	1721.6	1727.3	1732.6	1737.8
32.5°	1663.2	1661.0	1666.3	1672.9	1685.6
35°	1598.7	1596.9	1602.6	1608.8	1615.4
37.5°	1531.5	1530.2	1536.8	1543.4	1549.5
40°	1463.5	1461.7	1468.3	1474.9	1481.5
42.5°	1393.7	1392.8	1399.0	1405.5	1412.6
45°	1321.3	1320.8	1327.0	1333.6	1340.6
47.5°	1247.5	1246.6	1252.8	1259.8	1266.0
50°	1172.0	1171.1	1177.3	1184.3	1190.9
52.5°	1094.3	1094.3	1100.0	1106.2	1116.3
55°	1016.2	1014.9	1021.0	1028.0	1037.7
57.5°	937.2	935.4	941.1	948.2	956.9
60°	856.4	854.7	859.9	866.9	879.2
62.5°	774.8	772.1	777.4	784.0	791.4
65°	692.2	689.6	694.4	700.6	707.6
67.5°	609.3	606.2	611.0	616.3	622.9
70°	525.9	522.8	526.3	531.6	537.7
72.5°	442.9	439.8	442.9	445.1	452.6
75°	361.7	358.6	360.4	362.1	368.7
77.5°	282.7	279.6	283.1	284.0	288.0
80°	208.5	205.4	207.6	208.1	211.1
82.5°	140.9	138.3	141.3	139.1	141.8
85°	81.2	79.0	79.9	79.0	80.3
87.5°	32.0	30.3	30.7	29.0	29.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)