

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: P834401

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-2STD-20-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834401
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-12-4-INS-OPL-LD4-2STD-20-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

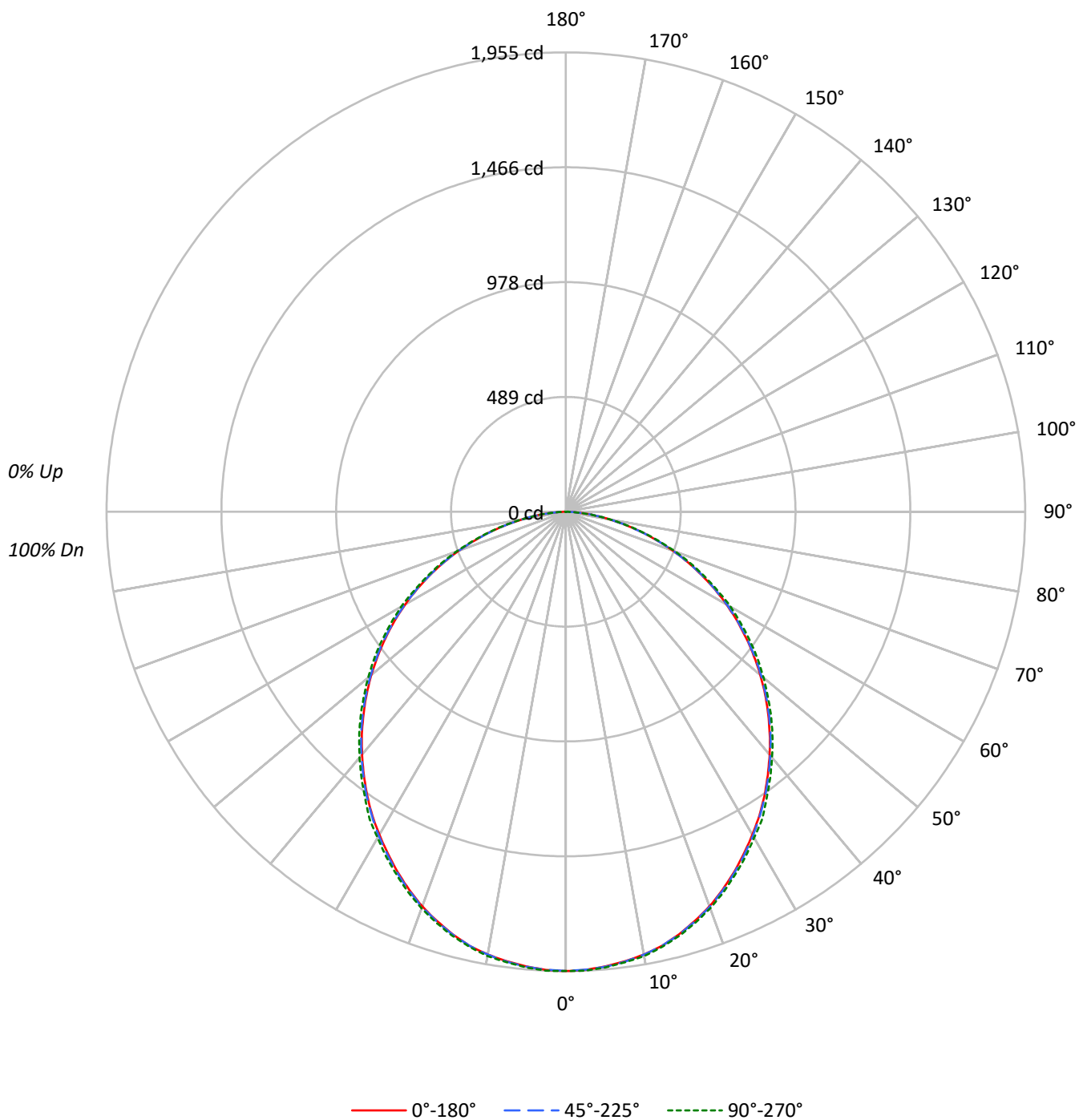
Lumens per Lamp: N/A
Luminaire Lumens: 5281.0 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	5259	5259	5259
5°	5246	5250	5256
10°	5229	5230	5245
15°	5185	5189	5204
20°	5118	5124	5143
25°	5026	5037	5060
30°	4931	4948	4978
35°	4841	4853	4892
40°	4739	4755	4797
45°	4635	4655	4703
50°	4523	4543	4596
55°	4395	4416	4488
60°	4249	4266	4362
65°	4063	4076	4153
70°	3814	3818	3900
75°	3466	3454	3534
80°	2978	2966	3016
85°	2313	2272	2285

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.7	3.5
10°-20°	525.3	9.9
20°-30°	782.1	14.8
30°-40°	924.9	17.5
40°-50°	944.2	17.9
50°-60°	842.6	16.0
60°-70°	634.7	12.0
70°-80°	353.9	6.7
80°-90°	88.7	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°	1492.1	28.3
0°-40°	2417.0	45.8
0°-60°	4203.8	79.6
0°-90°	5281.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5281.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1954	1954	1954	1954	1954	
5°	1942	1946	1944	1944	1946	184
15°	1861	1863	1863	1864	1868	525
25°	1693	1695	1697	1701	1704	780
35°	1474	1472	1477	1483	1489	922
45°	1218	1218	1223	1229	1236	940
55°	937	936	941	948	957	837
65°	638	636	640	646	652	631
75°	333	331	332	334	340	353
85°	75	73	74	73	74	90
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1954.4	1954.4	1954.4	1954.4	1954.4
2.5°	1951.2	1954.4	1950.4	1951.2	1954.8
5°	1941.9	1945.5	1943.5	1943.9	1945.9
7.5°	1928.9	1933.8	1930.9	1931.7	1933.8
10°	1913.5	1917.2	1913.9	1916.0	1919.6
12.5°	1891.7	1893.3	1891.7	1892.5	1896.5
15°	1861.3	1863.4	1862.6	1864.2	1867.8
17.5°	1825.7	1828.2	1827.8	1831.0	1833.8
20°	1787.3	1787.7	1789.3	1792.5	1795.8
22.5°	1742.0	1743.2	1744.8	1749.3	1752.5
25°	1692.6	1694.6	1696.6	1701.1	1704.3
27.5°	1640.4	1642.4	1645.3	1650.1	1655.4
30°	1587.0	1587.0	1592.3	1597.1	1602.0
32.5°	1533.2	1531.2	1536.0	1542.1	1553.8
35°	1473.7	1472.1	1477.3	1483.0	1489.1
37.5°	1411.8	1410.6	1416.6	1422.7	1428.4
40°	1349.1	1347.4	1353.5	1359.6	1365.7
42.5°	1284.7	1283.9	1289.6	1295.7	1302.1
45°	1218.0	1217.6	1223.2	1229.3	1235.8
47.5°	1150.0	1149.2	1154.8	1161.3	1167.0
50°	1080.4	1079.6	1085.2	1091.7	1097.8
52.5°	1008.8	1008.8	1014.0	1019.7	1029.0
55°	936.7	935.5	941.2	947.7	956.6
57.5°	863.9	862.3	867.5	874.0	882.1
60°	789.4	787.8	792.7	799.2	810.5
62.5°	714.2	711.8	716.6	722.7	729.6
65°	638.1	635.7	640.1	645.8	652.3
67.5°	561.6	558.8	563.3	568.1	574.2
70°	484.8	481.9	485.2	490.0	495.7
72.5°	408.3	405.4	408.3	410.3	417.2
75°	333.4	330.6	332.2	333.8	339.9
77.5°	260.6	257.8	261.0	261.8	265.4
80°	192.2	189.4	191.4	191.8	194.6
82.5°	129.9	127.5	130.3	128.3	130.7
85°	74.9	72.8	73.6	72.8	74.0
87.5°	29.5	27.9	28.3	26.7	26.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)