

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: P835066

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-2LO-27-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835066
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-4-INS-OPL-LD4-2LO-27-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

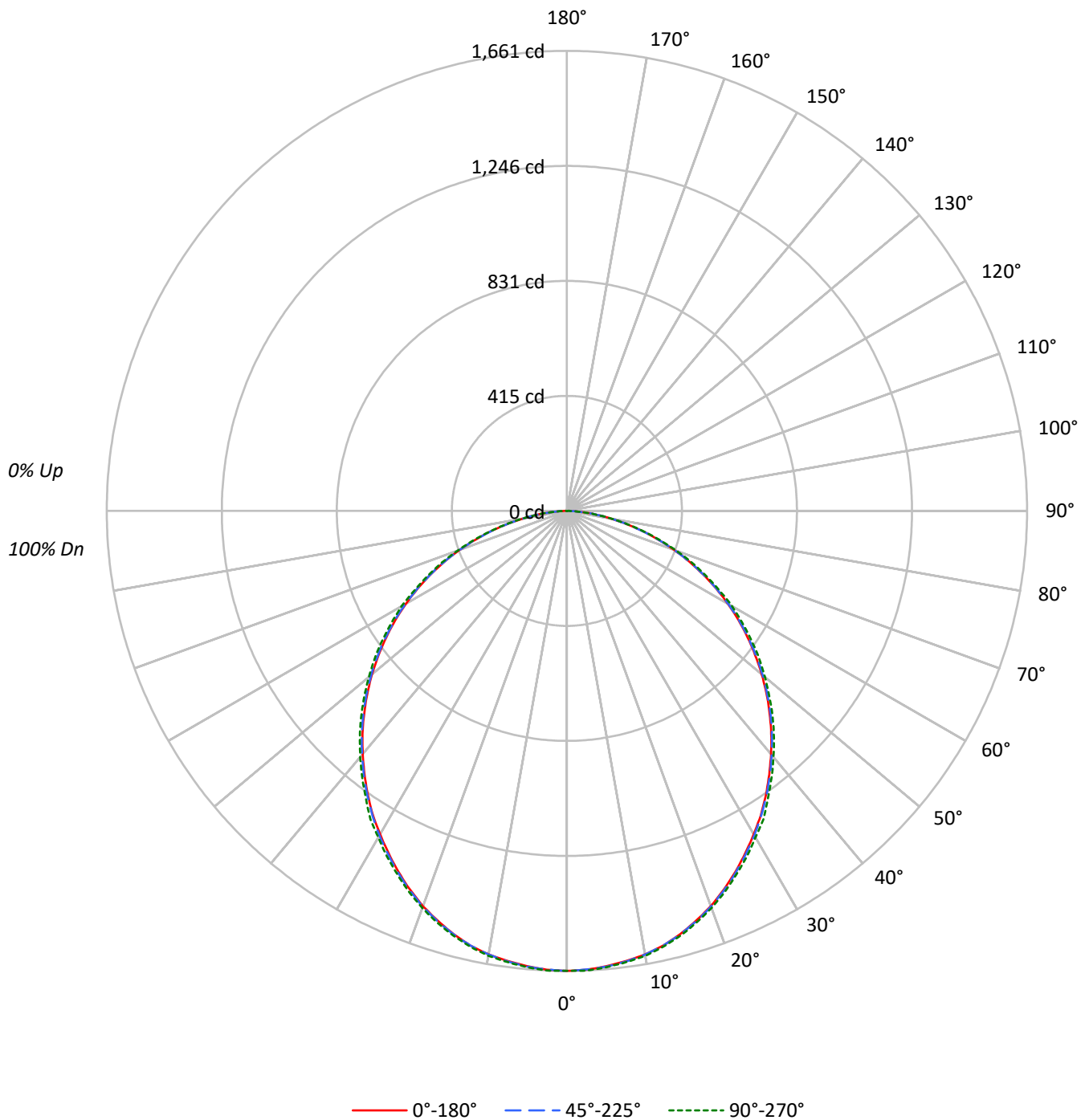
Lumens per Lamp: N/A
Luminaire Lumens: 4487.4 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2234	2234	2234
5°	2229	2230	2233
10°	2222	2222	2228
15°	2203	2204	2211
20°	2175	2177	2185
25°	2135	2140	2150
30°	2095	2102	2115
35°	2057	2062	2078
40°	2013	2020	2038
45°	1969	1978	1998
50°	1922	1930	1953
55°	1867	1876	1907
60°	1805	1813	1853
65°	1726	1732	1765
70°	1620	1622	1657
75°	1473	1468	1501
80°	1265	1260	1282
85°	982	966	971

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.9	3.5
10°-20°	446.4	9.9
20°-30°	664.5	14.8
30°-40°	785.9	17.5
40°-50°	802.3	17.9
50°-60°	716.0	16.0
60°-70°	539.3	12.0
70°-80°	300.7	6.7
80°-90°	75.3	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°	1267.9	28.3
0°-40°	2053.7	45.8
0°-60°	3572.0	79.6
0°-90°	4487.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4487.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1661	1661	1661	1661	1661	
5°	1650	1653	1651	1652	1654	157
15°	1582	1583	1583	1584	1587	446
25°	1438	1440	1442	1446	1448	663
35°	1252	1251	1255	1260	1265	783
45°	1035	1035	1039	1045	1050	798
55°	796	795	800	805	813	712
65°	542	540	544	549	554	536
75°	283	281	282	284	289	300
85°	64	62	63	62	63	76
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1660.7	1660.7	1660.7	1660.7	1660.7
2.5°	1657.9	1660.7	1657.3	1657.9	1661.0
5°	1650.0	1653.1	1651.4	1651.8	1653.5
7.5°	1639.0	1643.2	1640.7	1641.4	1643.2
10°	1626.0	1629.1	1626.3	1628.0	1631.1
12.5°	1607.4	1608.8	1607.4	1608.1	1611.5
15°	1581.6	1583.3	1582.6	1584.0	1587.1
17.5°	1551.4	1553.4	1553.1	1555.8	1558.2
20°	1518.7	1519.0	1520.4	1523.2	1525.9
22.5°	1480.2	1481.2	1482.6	1486.4	1489.1
25°	1438.2	1440.0	1441.7	1445.5	1448.2
27.5°	1393.9	1395.6	1398.0	1402.1	1406.6
30°	1348.5	1348.5	1353.0	1357.1	1361.2
32.5°	1302.8	1301.0	1305.2	1310.3	1320.3
35°	1252.2	1250.8	1255.3	1260.1	1265.3
37.5°	1199.6	1198.6	1203.7	1208.9	1213.7
40°	1146.3	1144.9	1150.1	1155.3	1160.4
42.5°	1091.7	1091.0	1095.8	1100.9	1106.4
45°	1034.9	1034.6	1039.4	1044.6	1050.1
47.5°	977.2	976.5	981.3	986.8	991.6
50°	918.0	917.3	922.1	927.6	932.8
52.5°	857.2	857.2	861.6	866.4	874.4
55°	796.0	794.9	799.7	805.2	812.8
57.5°	734.1	732.7	737.2	742.7	749.5
60°	670.8	669.4	673.6	679.1	688.7
62.5°	606.9	604.8	608.9	614.1	619.9
65°	542.2	540.2	543.9	548.8	554.3
67.5°	477.2	474.8	478.6	482.7	487.9
70°	411.9	409.5	412.3	416.4	421.2
72.5°	346.9	344.5	346.9	348.6	354.5
75°	283.3	280.9	282.3	283.7	288.8
77.5°	221.4	219.0	221.8	222.5	225.6
80°	163.3	160.9	162.6	163.0	165.4
82.5°	110.4	108.3	110.7	109.0	111.1
85°	63.6	61.9	62.6	61.9	62.9
87.5°	25.1	23.7	24.1	22.7	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)