

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: P835136

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-1STD-50-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835136
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-LD4-1STD-50-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

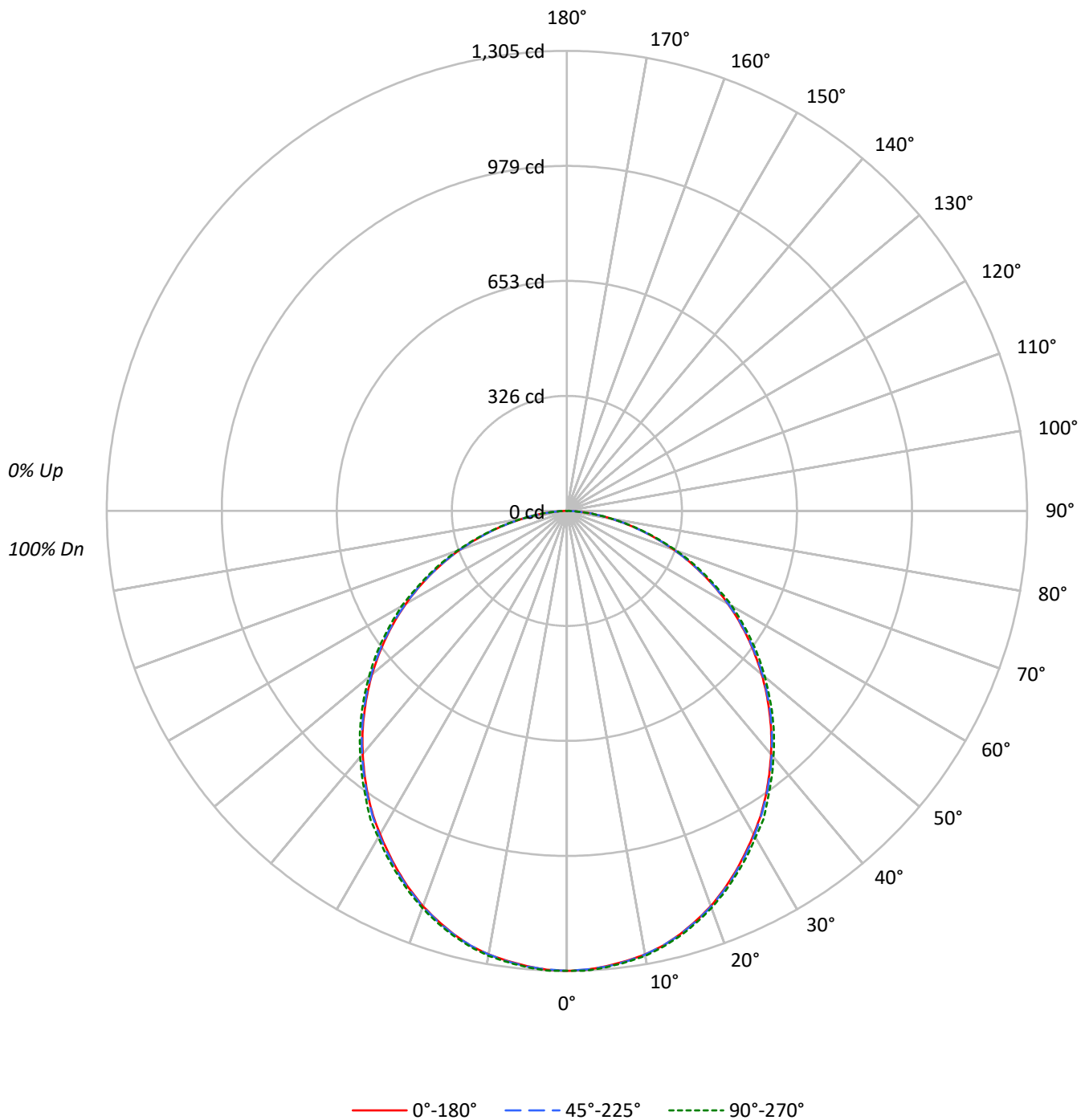
Lumens per Lamp: N/A
Luminaire Lumens: 3525.5 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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

1121 Highway 74 South

Peachtree City, GA 30269



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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	100		
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84		
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59		
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51		
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	44		
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38		
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34		
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30		
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27		
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1755	1755	1755
5°	1751	1752	1755
10°	1745	1746	1751
15°	1731	1732	1737
20°	1708	1710	1716
25°	1678	1682	1689
30°	1646	1652	1661
35°	1616	1620	1633
40°	1582	1587	1601
45°	1547	1554	1570
50°	1510	1517	1534
55°	1467	1474	1498
60°	1418	1424	1456
65°	1356	1360	1387
70°	1273	1274	1302
75°	1157	1153	1180
80°	994	990	1007
85°	772	760	763

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.3	3.5
10°-20°	350.7	9.9
20°-30°	522.1	14.8
30°-40°	617.4	17.5
40°-50°	630.3	17.9
50°-60°	562.5	16.0
60°-70°	423.7	12.0
70°-80°	236.3	6.7
80°-90°	59.2	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°	996.1	28.3
0°-40°	1613.5	45.8
0°-60°	2806.4	79.6
0°-90°	3525.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3525.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1305	1305	1305	1305	1305	
5°	1296	1299	1297	1298	1299	123
15°	1243	1244	1243	1244	1247	350
25°	1130	1131	1133	1136	1138	521
35°	984	983	986	990	994	615
45°	813	813	817	821	825	627
55°	625	624	628	633	639	559
65°	426	424	427	431	436	421
75°	223	221	222	223	227	236
85°	50	49	49	49	49	60
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1304.7	1304.7	1304.7	1304.7	1304.7
2.5°	1302.6	1304.7	1302.0	1302.6	1305.0
5°	1296.4	1298.8	1297.4	1297.7	1299.1
7.5°	1287.7	1291.0	1289.1	1289.6	1291.0
10°	1277.4	1279.9	1277.7	1279.1	1281.5
12.5°	1262.9	1263.9	1262.9	1263.4	1266.1
15°	1242.6	1244.0	1243.4	1244.5	1246.9
17.5°	1218.8	1220.5	1220.2	1222.3	1224.2
20°	1193.2	1193.4	1194.5	1196.7	1198.8
22.5°	1162.9	1163.7	1164.8	1167.8	1169.9
25°	1130.0	1131.3	1132.7	1135.6	1137.8
27.5°	1095.1	1096.5	1098.4	1101.6	1105.1
30°	1059.5	1059.5	1063.0	1066.2	1069.4
32.5°	1023.5	1022.2	1025.4	1029.5	1037.3
35°	983.8	982.7	986.2	990.0	994.1
37.5°	942.5	941.7	945.7	949.8	953.6
40°	900.6	899.5	903.6	907.6	911.7
42.5°	857.7	857.1	860.9	865.0	869.3
45°	813.1	812.8	816.6	820.7	825.0
47.5°	767.7	767.2	771.0	775.3	779.1
50°	721.2	720.7	724.5	728.8	732.9
52.5°	673.4	673.4	676.9	680.7	686.9
55°	625.4	624.5	628.3	632.6	638.6
57.5°	576.7	575.6	579.2	583.5	588.9
60°	527.0	525.9	529.2	533.5	541.1
62.5°	476.8	475.2	478.4	482.5	487.0
65°	426.0	424.4	427.3	431.1	435.5
67.5°	374.9	373.1	376.0	379.3	383.3
70°	323.6	321.7	323.9	327.1	330.9
72.5°	272.6	270.7	272.6	273.9	278.5
75°	222.6	220.7	221.8	222.9	226.9
77.5°	174.0	172.1	174.2	174.8	177.2
80°	128.3	126.4	127.8	128.0	129.9
82.5°	86.7	85.1	87.0	85.6	87.3
85°	50.0	48.6	49.2	48.6	49.4
87.5°	19.7	18.6	18.9	17.8	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)