

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: P835065

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-1HI-27-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835065
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-LD4-1HI-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

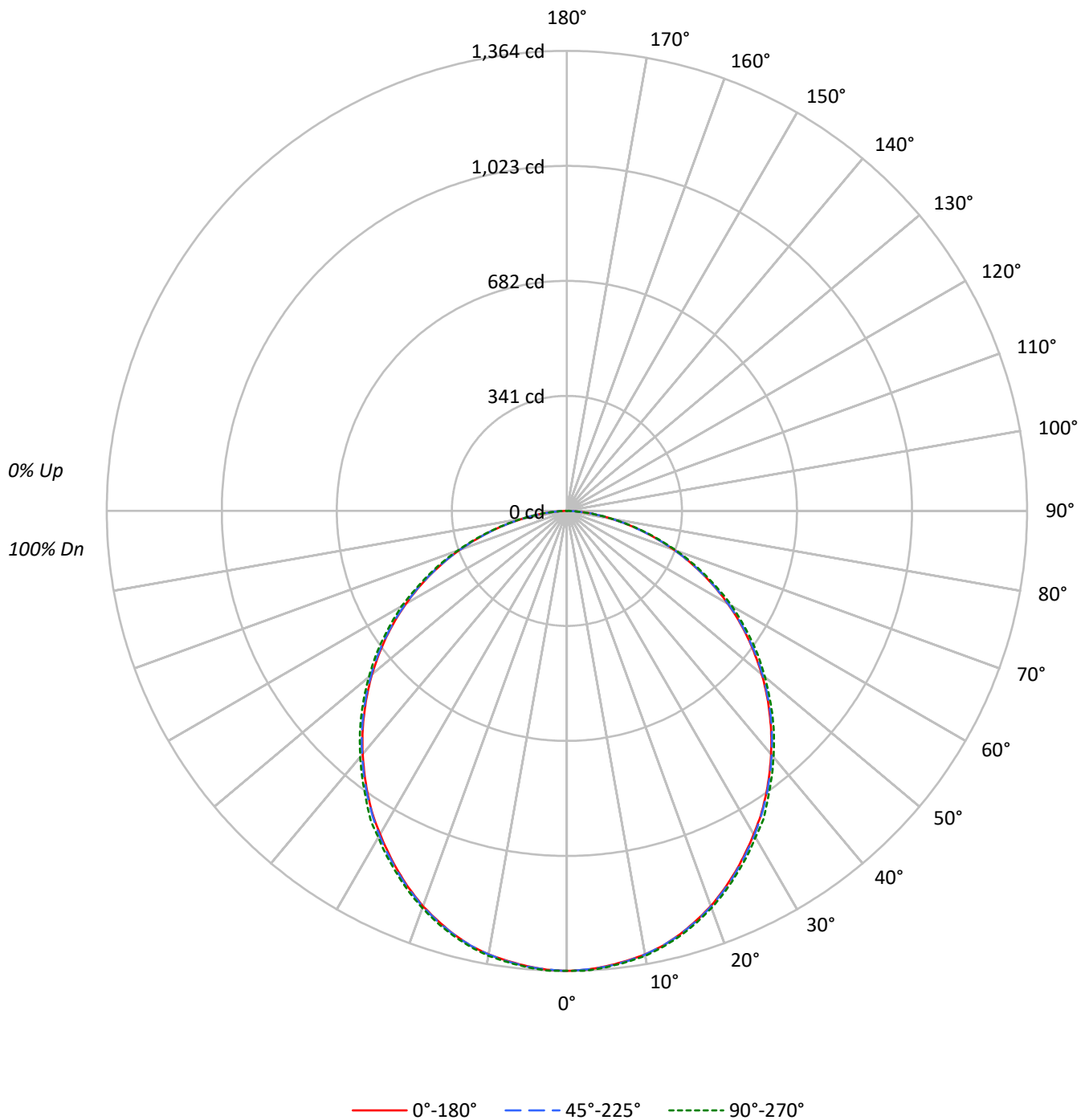
Lumens per Lamp: N/A
Luminaire Lumens: 3685.1 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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°	1835	1835	1835
5°	1830	1832	1834
10°	1824	1825	1830
15°	1809	1810	1816
20°	1786	1788	1794
25°	1753	1758	1766
30°	1720	1726	1737
35°	1689	1693	1707
40°	1653	1659	1674
45°	1617	1624	1641
50°	1578	1585	1603
55°	1533	1541	1566
60°	1482	1488	1522
65°	1418	1422	1449
70°	1331	1332	1361
75°	1210	1205	1233
80°	1039	1035	1052
85°	806	794	798

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.9	3.5
10°-20°	366.6	9.9
20°-30°	545.7	14.8
30°-40°	645.4	17.5
40°-50°	658.8	17.9
50°-60°	588.0	16.0
60°-70°	442.9	12.0
70°-80°	247.0	6.7
80°-90°	61.9	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°	1041.2	28.3
0°-40°	1686.6	45.8
0°-60°	2933.4	79.6
0°-90°	3685.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3685.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1364	1364	1364	1364	1364	
5°	1355	1358	1356	1356	1358	129
15°	1299	1300	1300	1301	1303	366
25°	1181	1182	1184	1187	1189	544
35°	1028	1027	1031	1035	1039	643
45°	850	850	854	858	862	656
55°	654	653	657	661	668	584
65°	445	444	447	451	455	440
75°	233	231	232	233	237	247
85°	52	51	51	51	52	63
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1363.8	1363.8	1363.8	1363.8	1363.8
2.5°	1361.5	1363.8	1361.0	1361.5	1364.1
5°	1355.1	1357.6	1356.2	1356.5	1357.9
7.5°	1346.0	1349.4	1347.4	1348.0	1349.4
10°	1335.3	1337.8	1335.6	1337.0	1339.5
12.5°	1320.0	1321.2	1320.0	1320.6	1323.4
15°	1298.9	1300.3	1299.7	1300.8	1303.4
17.5°	1274.0	1275.7	1275.4	1277.7	1279.7
20°	1247.2	1247.5	1248.6	1250.9	1253.1
22.5°	1215.6	1216.4	1217.5	1220.7	1222.9
25°	1181.1	1182.5	1183.9	1187.0	1189.3
27.5°	1144.7	1146.1	1148.1	1151.5	1155.1
30°	1107.4	1107.4	1111.1	1114.5	1117.9
32.5°	1069.9	1068.5	1071.8	1076.1	1084.3
35°	1028.4	1027.2	1030.9	1034.9	1039.1
37.5°	985.2	984.3	988.5	992.8	996.7
40°	941.4	940.3	944.5	948.7	953.0
42.5°	896.5	895.9	899.9	904.1	908.6
45°	849.9	849.6	853.6	857.8	862.3
47.5°	802.5	801.9	805.9	810.4	814.3
50°	753.9	753.3	757.3	761.8	766.0
52.5°	703.9	703.9	707.6	711.6	718.0
55°	653.7	652.8	656.8	661.3	667.5
57.5°	602.8	601.7	605.4	609.9	615.5
60°	550.9	549.8	553.1	557.7	565.6
62.5°	498.4	496.7	500.1	504.3	509.1
65°	445.3	443.6	446.7	450.6	455.2
67.5°	391.9	389.9	393.0	396.4	400.7
70°	338.3	336.3	338.6	341.9	345.9
72.5°	284.9	282.9	284.9	286.3	291.1
75°	232.7	230.7	231.8	232.9	237.2
77.5°	181.8	179.9	182.1	182.7	185.2
80°	134.1	132.1	133.6	133.8	135.8
82.5°	90.6	88.9	90.9	89.5	91.2
85°	52.2	50.8	51.4	50.8	51.7
87.5°	20.6	19.5	19.8	18.6	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)