

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: P835027

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

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835027
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-LD4-1LO-50-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

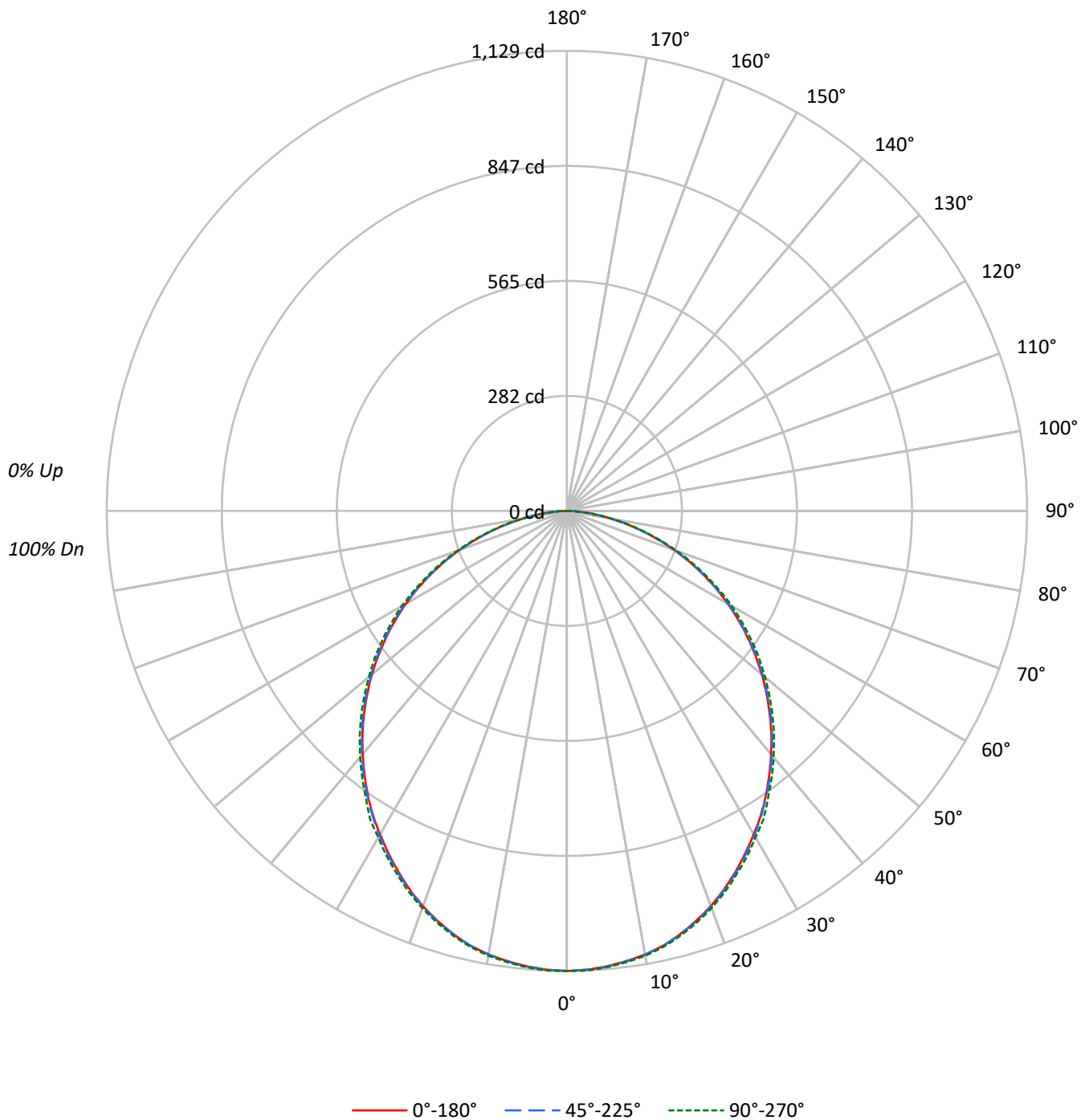
Lumens per Lamp: N/A
Luminaire Lumens: 3050.9 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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°	1519	1519	1519
5°	1515	1516	1518
10°	1510	1511	1515
15°	1498	1499	1503
20°	1478	1480	1486
25°	1452	1455	1462
30°	1424	1429	1438
35°	1398	1402	1413
40°	1369	1373	1386
45°	1339	1345	1358
50°	1307	1312	1328
55°	1270	1275	1296
60°	1227	1232	1260
65°	1174	1177	1200
70°	1102	1103	1127
75°	1001	998	1021
80°	860	857	871
85°	667	656	661

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.7	3.5
10°-20°	303.5	9.9
20°-30°	451.8	14.8
30°-40°	534.3	17.5
40°-50°	545.5	17.9
50°-60°	486.8	16.0
60°-70°	366.6	12.0
70°-80°	204.5	6.7
80°-90°	51.2	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°	862.0	28.3
0°-40°	1396.3	45.8
0°-60°	2428.6	79.6
0°-90°	3050.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3050.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1129	1129	1129	1129	1129	
5°	1122	1124	1123	1123	1124	107
15°	1075	1076	1076	1077	1079	303
25°	978	979	980	983	985	450
35°	851	850	854	857	860	532
45°	704	703	707	710	714	543
55°	541	540	544	548	553	484
65°	369	367	370	373	377	365
75°	193	191	192	193	196	204
85°	43	42	42	42	43	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1129.1	1129.1	1129.1	1129.1	1129.1
2.5°	1127.2	1129.1	1126.8	1127.2	1129.3
5°	1121.8	1123.9	1122.8	1123.0	1124.2
7.5°	1114.4	1117.2	1115.5	1116.0	1117.2
10°	1105.5	1107.6	1105.7	1106.9	1109.0
12.5°	1092.9	1093.8	1092.9	1093.3	1095.7
15°	1075.3	1076.5	1076.0	1077.0	1079.1
17.5°	1054.8	1056.2	1055.9	1057.8	1059.4
20°	1032.5	1032.8	1033.7	1035.6	1037.5
22.5°	1006.4	1007.1	1008.0	1010.6	1012.4
25°	977.8	979.0	980.2	982.8	984.6
27.5°	947.7	948.9	950.5	953.3	956.3
30°	916.8	916.8	919.9	922.7	925.5
32.5°	885.7	884.6	887.4	890.9	897.7
35°	851.4	850.4	853.5	856.8	860.3
37.5°	815.6	814.9	818.4	821.9	825.2
40°	779.4	778.4	781.9	785.5	789.0
42.5°	742.2	741.7	745.0	748.5	752.3
45°	703.6	703.4	706.7	710.2	713.9
47.5°	664.4	663.9	667.2	670.9	674.2
50°	624.2	623.7	627.0	630.7	634.2
52.5°	582.8	582.8	585.8	589.1	594.5
55°	541.2	540.5	543.7	547.5	552.6
57.5°	499.1	498.2	501.2	504.9	509.6
60°	456.1	455.1	457.9	461.7	468.2
62.5°	412.6	411.2	414.0	417.5	421.5
65°	368.6	367.2	369.8	373.1	376.8
67.5°	324.5	322.8	325.4	328.2	331.7
70°	280.1	278.4	280.3	283.1	286.4
72.5°	235.9	234.2	235.9	237.0	241.0
75°	192.6	191.0	191.9	192.9	196.4
77.5°	150.5	148.9	150.8	151.2	153.4
80°	111.0	109.4	110.6	110.8	112.4
82.5°	75.0	73.6	75.3	74.1	75.5
85°	43.2	42.1	42.5	42.1	42.8
87.5°	17.1	16.1	16.4	15.4	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)