

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: P834955

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

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834955
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-27-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

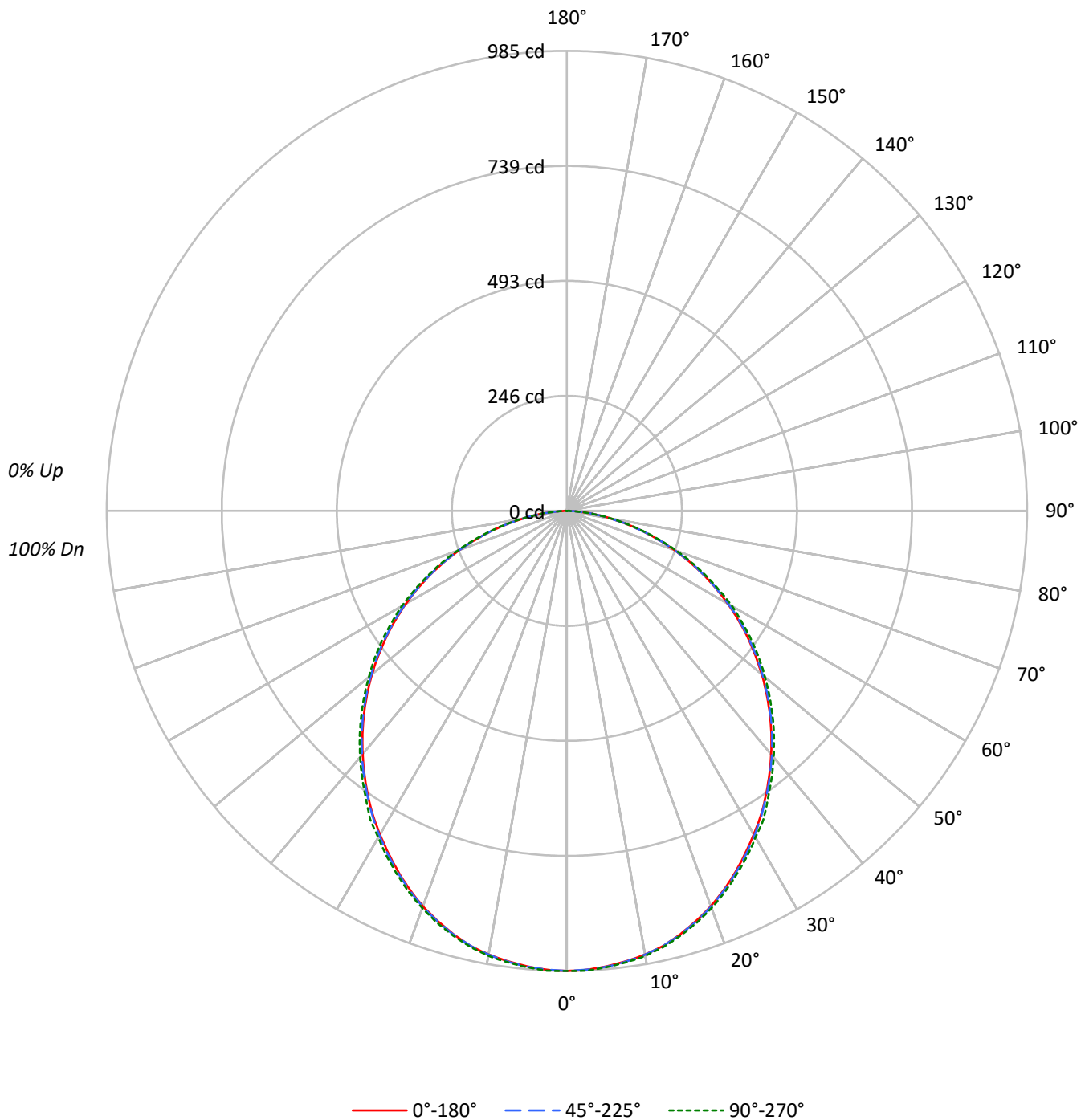
Lumens per Lamp: N/A
Luminaire Lumens: 2662.1 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	95	98	94	92		94	91	89		90
2	99	91	84	78	96	89	83	77	85	80	76		82	78	74		79
3	90	80	72	65	88	78	71	65	75	69	64		73	67	62		70
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		56
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51
7	65	52	43	37	64	51	43	37	49	42	36		48	41	36		47
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		43
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		40
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1326	1326	1326
5°	1322	1323	1325
10°	1318	1318	1322
15°	1307	1308	1311
20°	1290	1292	1296
25°	1267	1270	1275
30°	1243	1247	1255
35°	1220	1223	1233
40°	1194	1198	1209
45°	1168	1173	1185
50°	1140	1145	1158
55°	1108	1113	1131
60°	1071	1075	1100
65°	1024	1027	1047
70°	961	962	983
75°	874	871	891
80°	751	748	760
85°	582	573	576

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.1	3.5
10°-20°	264.8	9.9
20°-30°	394.2	14.8
30°-40°	466.2	17.5
40°-50°	475.9	17.9
50°-60°	424.8	16.0
60°-70°	319.9	12.0
70°-80°	178.4	6.7
80°-90°	44.7	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°	752.1	28.3
0°-40°	1218.4	45.8
0°-60°	2119.1	79.6
0°-90°	2662.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2662.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	985	985	985	985	985	
5°	979	981	980	980	981	93
15°	938	939	939	940	942	264
25°	853	854	855	858	859	393
35°	743	742	745	748	751	465
45°	614	614	617	620	623	474
55°	472	472	474	478	482	422
65°	322	320	323	326	329	318
75°	168	167	168	168	171	178
85°	38	37	37	37	37	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	985.2	985.2	985.2	985.2	985.2
2.5°	983.6	985.2	983.1	983.6	985.4
5°	978.9	980.7	979.7	979.9	980.9
7.5°	972.3	974.8	973.4	973.8	974.8
10°	964.6	966.4	964.8	965.8	967.6
12.5°	953.6	954.4	953.6	954.0	956.0
15°	938.3	939.3	938.9	939.7	941.5
17.5°	920.3	921.5	921.3	923.0	924.4
20°	900.9	901.1	902.0	903.6	905.2
22.5°	878.1	878.7	879.5	881.8	883.4
25°	853.2	854.2	855.3	857.5	859.1
27.5°	826.9	827.9	829.4	831.8	834.5
30°	800.0	800.0	802.6	805.1	807.5
32.5°	772.9	771.8	774.3	777.3	783.3
35°	742.9	742.1	744.7	747.6	750.6
37.5°	711.7	711.0	714.1	717.2	720.0
40°	680.0	679.2	682.3	685.3	688.4
42.5°	647.6	647.2	650.1	653.1	656.4
45°	614.0	613.8	616.6	619.7	622.9
47.5°	579.7	579.3	582.1	585.4	588.3
50°	544.6	544.2	547.1	550.3	553.4
52.5°	508.5	508.5	511.2	514.0	518.7
55°	472.2	471.6	474.4	477.7	482.2
57.5°	435.5	434.7	437.3	440.6	444.7
60°	398.0	397.1	399.6	402.8	408.6
62.5°	360.0	358.8	361.2	364.3	367.8
65°	321.7	320.4	322.7	325.5	328.8
67.5°	283.1	281.7	283.9	286.4	289.4
70°	244.4	242.9	244.6	247.0	249.9
72.5°	205.8	204.4	205.8	206.8	210.3
75°	168.1	166.6	167.5	168.3	171.3
77.5°	131.4	129.9	131.6	132.0	133.8
80°	96.9	95.5	96.5	96.7	98.1
82.5°	65.5	64.3	65.7	64.7	65.9
85°	37.7	36.7	37.1	36.7	37.3
87.5°	14.9	14.1	14.3	13.5	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)