

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: P834497

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-1STD-50-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834497
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-12-4-INS-OPL-LD4-1STD-50-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

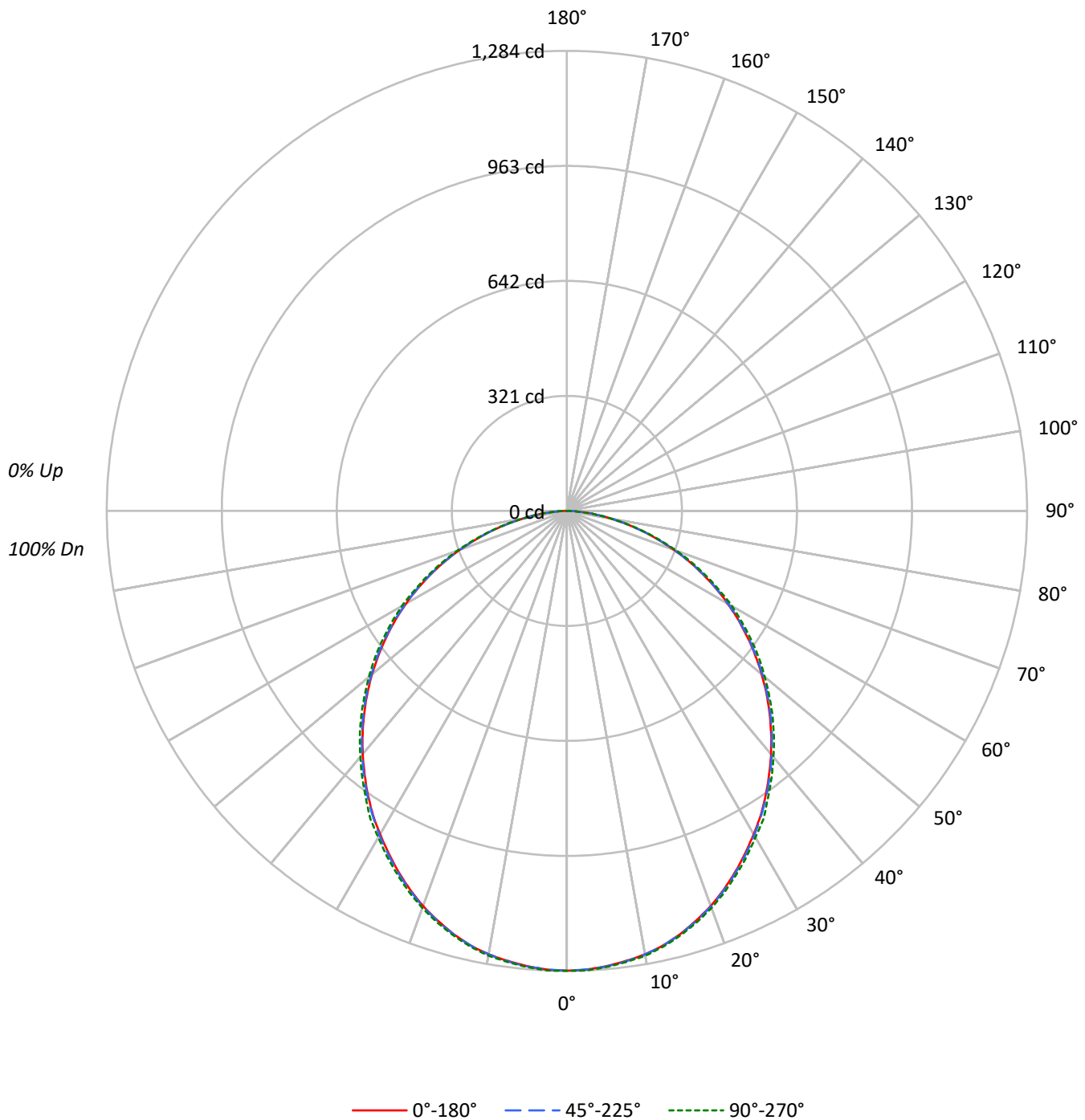
Lumens per Lamp: N/A
Luminaire Lumens: 3468.1 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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
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°	3454	3454	3454
5°	3445	3448	3452
10°	3434	3434	3445
15°	3405	3408	3417
20°	3361	3365	3377
25°	3301	3308	3323
30°	3238	3249	3269
35°	3179	3187	3212
40°	3112	3123	3150
45°	3044	3057	3088
50°	2970	2984	3018
55°	2886	2900	2947
60°	2790	2802	2865
65°	2669	2677	2728
70°	2504	2507	2561
75°	2277	2269	2321
80°	1956	1948	1980
85°	1519	1494	1501



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.3	3.5
10°-20°	345.0	9.9
20°-30°	513.6	14.8
30°-40°	607.4	17.5
40°-50°	620.1	17.9
50°-60°	553.4	16.0
60°-70°	416.8	12.0
70°-80°	232.4	6.7
80°-90°	58.2	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°	979.9	28.3
0°-40°	1587.3	45.8
0°-60°	2760.7	79.6
0°-90°	3468.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3468.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1284	1284	1284	1284	1284	
5°	1275	1278	1276	1277	1278	121
15°	1222	1224	1223	1224	1227	345
25°	1112	1113	1114	1117	1119	512
35°	968	967	970	974	978	605
45°	800	800	803	807	812	617
55°	615	614	618	622	628	550
65°	419	418	420	424	428	414
75°	219	217	218	219	223	232
85°	49	48	48	48	49	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1283.5	1283.5	1283.5	1283.5	1283.5
2.5°	1281.4	1283.5	1280.8	1281.4	1283.8
5°	1275.3	1277.6	1276.3	1276.6	1277.9
7.5°	1266.7	1269.9	1268.1	1268.6	1269.9
10°	1256.7	1259.0	1256.9	1258.2	1260.6
12.5°	1242.3	1243.4	1242.3	1242.8	1245.5
15°	1222.4	1223.7	1223.2	1224.2	1226.6
17.5°	1199.0	1200.6	1200.3	1202.4	1204.3
20°	1173.7	1174.0	1175.1	1177.2	1179.3
22.5°	1144.0	1144.8	1145.8	1148.8	1150.9
25°	1111.6	1112.9	1114.2	1117.1	1119.3
27.5°	1077.3	1078.6	1080.5	1083.7	1087.1
30°	1042.2	1042.2	1045.7	1048.8	1052.0
32.5°	1006.9	1005.5	1008.7	1012.7	1020.4
35°	967.8	966.7	970.2	973.9	977.9
37.5°	927.1	926.3	930.3	934.3	938.0
40°	886.0	884.9	888.9	892.9	896.8
42.5°	843.7	843.2	846.9	850.9	855.1
45°	799.9	799.6	803.3	807.3	811.5
47.5°	755.2	754.7	758.4	762.7	766.4
50°	709.5	709.0	712.7	716.9	720.9
52.5°	662.5	662.5	665.9	669.6	675.8
55°	615.2	614.4	618.1	622.3	628.2
57.5°	567.3	566.3	569.7	574.0	579.3
60°	518.4	517.4	520.6	524.8	532.3
62.5°	469.0	467.4	470.6	474.6	479.1
65°	419.1	417.5	420.4	424.1	428.4
67.5°	368.8	367.0	369.9	373.1	377.1
70°	318.3	316.5	318.6	321.8	325.5
72.5°	268.1	266.3	268.1	269.5	274.0
75°	219.0	217.1	218.2	219.2	223.2
77.5°	171.1	169.3	171.4	171.9	174.3
80°	126.2	124.4	125.7	126.0	127.8
82.5°	85.3	83.7	85.6	84.2	85.8
85°	49.2	47.8	48.4	47.8	48.6
87.5°	19.4	18.3	18.6	17.5	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)