

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: P834462

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-1HI-27-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834462
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-LD4-1HI-27-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

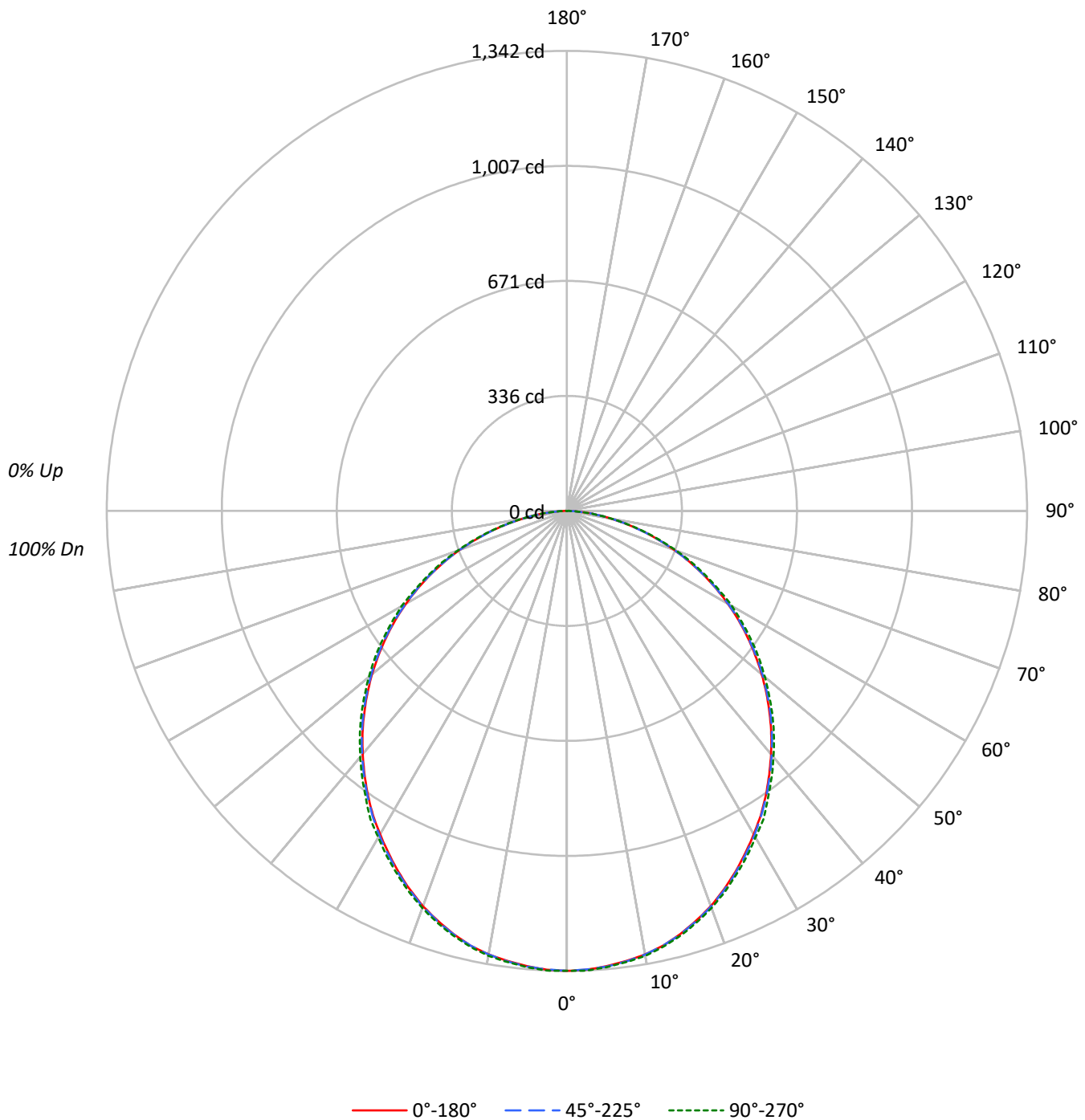
Lumens per Lamp: N/A
Luminaire Lumens: 3625.4 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P834462

CATALOG NUMBER: ORLG-12-4-INS-OPL-LD4-1HI-27-120-EDD-90

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P834462

CATALOG NUMBER: ORLG-12-4-INS-OPL-LD4-1HI-27-120-EDD-90

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	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3610	3610	3610
5°	3601	3604	3609
10°	3589	3590	3601
15°	3560	3562	3572
20°	3514	3518	3530
25°	3450	3458	3474
30°	3385	3397	3417
35°	3324	3332	3358
40°	3253	3264	3293
45°	3182	3196	3229
50°	3105	3119	3155
55°	3017	3031	3081
60°	2917	2929	2995
65°	2790	2798	2851
70°	2618	2621	2677
75°	2380	2372	2426
80°	2044	2036	2070
85°	1587	1562	1568

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P834462

CATALOG NUMBER: ORLG-12-4-INS-OPL-LD4-1HI-27-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.8	3.5
10°-20°	360.6	9.9
20°-30°	536.9	14.8
30°-40°	634.9	17.5
40°-50°	648.2	17.9
50°-60°	578.5	16.0
60°-70°	435.7	12.0
70°-80°	243.0	6.7
80°-90°	60.9	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°	1024.3	28.3
0°-40°	1659.3	45.8
0°-60°	2885.9	79.6
0°-90°	3625.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3625.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1342	1342	1342	1342	1342	
5°	1333	1336	1334	1334	1336	127
15°	1278	1279	1279	1280	1282	360
25°	1162	1163	1165	1168	1170	535
35°	1012	1011	1014	1018	1022	633
45°	836	836	840	844	848	645
55°	643	642	646	651	657	575
65°	438	436	440	443	448	433
75°	229	227	228	229	233	243
85°	51	50	51	50	51	62
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P834462

CATALOG NUMBER: ORLG-12-4-INS-OPL-LD4-1HI-27-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1341.7	1341.7	1341.7	1341.7	1341.7
2.5°	1339.5	1341.7	1338.9	1339.5	1342.0
5°	1333.1	1335.6	1334.2	1334.5	1335.9
7.5°	1324.2	1327.5	1325.6	1326.1	1327.5
10°	1313.6	1316.1	1313.9	1315.3	1317.8
12.5°	1298.6	1299.8	1298.6	1299.2	1302.0
15°	1277.8	1279.2	1278.6	1279.8	1282.3
17.5°	1253.4	1255.0	1254.8	1257.0	1258.9
20°	1227.0	1227.3	1228.4	1230.6	1232.8
22.5°	1195.9	1196.7	1197.8	1200.9	1203.1
25°	1162.0	1163.4	1164.8	1167.8	1170.0
27.5°	1126.1	1127.5	1129.5	1132.8	1136.4
30°	1089.5	1089.5	1093.1	1096.4	1099.8
32.5°	1052.5	1051.1	1054.5	1058.6	1066.7
35°	1011.7	1010.6	1014.2	1018.1	1022.2
37.5°	969.2	968.4	972.5	976.7	980.6
40°	926.1	925.0	929.2	933.4	937.5
42.5°	882.0	881.4	885.3	889.5	893.9
45°	836.1	835.9	839.7	843.9	848.4
47.5°	789.5	788.9	792.8	797.2	801.1
50°	741.7	741.1	745.0	749.5	753.6
52.5°	692.5	692.5	696.1	700.0	706.4
55°	643.1	642.2	646.1	650.6	656.7
57.5°	593.1	592.0	595.6	600.0	605.6
60°	542.0	540.8	544.2	548.6	556.4
62.5°	490.3	488.6	492.0	496.1	500.8
65°	438.1	436.4	439.5	443.3	447.8
67.5°	385.6	383.6	386.7	390.0	394.2
70°	332.8	330.8	333.1	336.4	340.3
72.5°	280.3	278.3	280.3	281.7	286.4
75°	228.9	227.0	228.1	229.2	233.3
77.5°	178.9	176.9	179.2	179.7	182.2
80°	131.9	130.0	131.4	131.7	133.6
82.5°	89.2	87.5	89.4	88.1	89.7
85°	51.4	50.0	50.6	50.0	50.8
87.5°	20.3	19.2	19.4	18.3	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)