

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: P834471

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-1HI-30-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834471
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-30-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

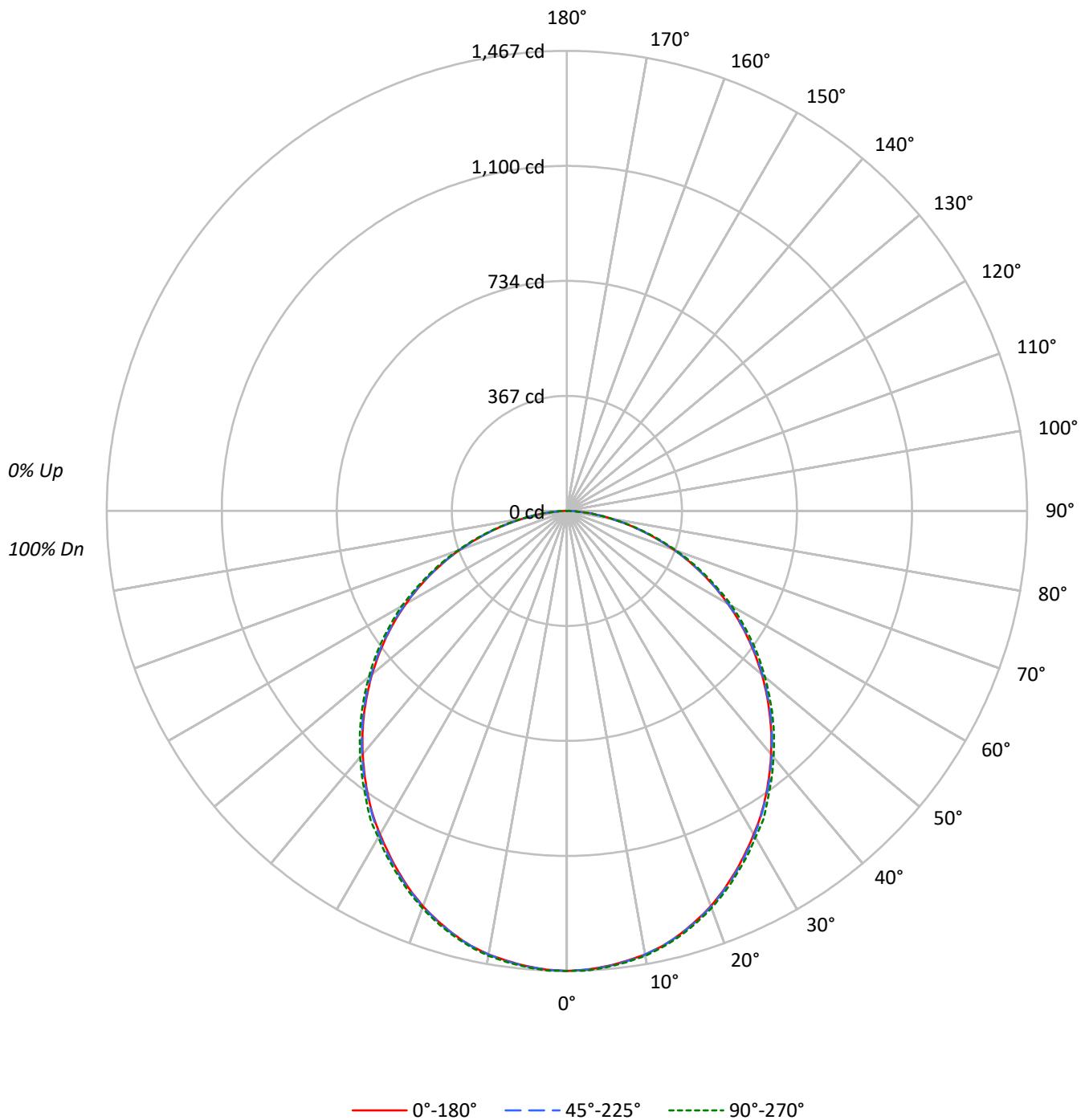
Lumens per Lamp: N/A
Luminaire Lumens: 3963.8 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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
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°	3947	3947	3947
5°	3937	3940	3945
10°	3925	3925	3937
15°	3892	3895	3906
20°	3842	3846	3860
25°	3772	3781	3798
30°	3701	3714	3736
35°	3634	3643	3672
40°	3557	3569	3601
45°	3479	3494	3530
50°	3395	3410	3450
55°	3299	3314	3369
60°	3189	3202	3274
65°	3050	3060	3117
70°	2862	2865	2927
75°	2602	2592	2652
80°	2236	2227	2264
85°	1735	1707	1717

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.6	3.5
10°-20°	394.3	9.9
20°-30°	587.0	14.8
30°-40°	694.2	17.5
40°-50°	708.7	17.9
50°-60°	632.5	16.0
60°-70°	476.4	12.0
70°-80°	265.7	6.7
80°-90°	66.6	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°	1119.9	28.3
0°-40°	1814.1	45.8
0°-60°	3155.2	79.6
0°-90°	3963.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3963.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1467	1467	1467	1467	1467	
5°	1458	1460	1459	1459	1460	138
15°	1397	1399	1398	1399	1402	394
25°	1270	1272	1274	1277	1279	585
35°	1106	1105	1109	1113	1118	692
45°	914	914	918	923	928	705
55°	703	702	706	711	718	628
65°	479	477	480	485	490	474
75°	250	248	249	251	255	265
85°	56	55	55	55	56	67
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1466.9	1466.9	1466.9	1466.9	1466.9
2.5°	1464.5	1466.9	1463.9	1464.5	1467.2
5°	1457.5	1460.2	1458.7	1459.0	1460.5
7.5°	1447.8	1451.4	1449.3	1449.9	1451.4
10°	1436.3	1439.0	1436.6	1438.1	1440.8
12.5°	1419.9	1421.1	1419.9	1420.5	1423.5
15°	1397.1	1398.6	1398.0	1399.2	1401.9
17.5°	1370.3	1372.2	1371.9	1374.3	1376.4
20°	1341.5	1341.8	1343.0	1345.4	1347.9
22.5°	1307.5	1308.4	1309.6	1312.9	1315.4
25°	1270.4	1271.9	1273.5	1276.8	1279.2
27.5°	1231.2	1232.8	1234.9	1238.5	1242.5
30°	1191.2	1191.2	1195.1	1198.7	1202.4
32.5°	1150.8	1149.2	1152.9	1157.4	1166.3
35°	1106.1	1104.9	1108.9	1113.1	1117.7
37.5°	1059.6	1058.7	1063.3	1067.8	1072.1
40°	1012.6	1011.4	1015.9	1020.5	1025.0
42.5°	964.3	963.7	967.9	972.5	977.3
45°	914.2	913.9	918.1	922.7	927.5
47.5°	863.1	862.5	866.8	871.7	875.9
50°	810.9	810.3	814.6	819.4	824.0
52.5°	757.2	757.2	761.1	765.4	772.3
55°	703.1	702.2	706.4	711.3	718.0
57.5°	648.4	647.2	651.2	656.0	662.1
60°	592.5	591.3	595.0	599.8	608.3
62.5°	536.1	534.2	537.9	542.4	547.6
65°	479.0	477.1	480.5	484.7	489.6
67.5°	421.6	419.4	422.8	426.4	431.0
70°	363.8	361.7	364.2	367.8	372.0
72.5°	306.4	304.3	306.4	308.0	313.1
75°	250.3	248.1	249.3	250.6	255.1
77.5°	195.6	193.5	195.9	196.5	199.2
80°	144.3	142.1	143.7	144.0	146.1
82.5°	97.5	95.7	97.8	96.3	98.1
85°	56.2	54.7	55.3	54.7	55.6
87.5°	22.2	21.0	21.3	20.0	20.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)