

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: P834416

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

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834416
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-30-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

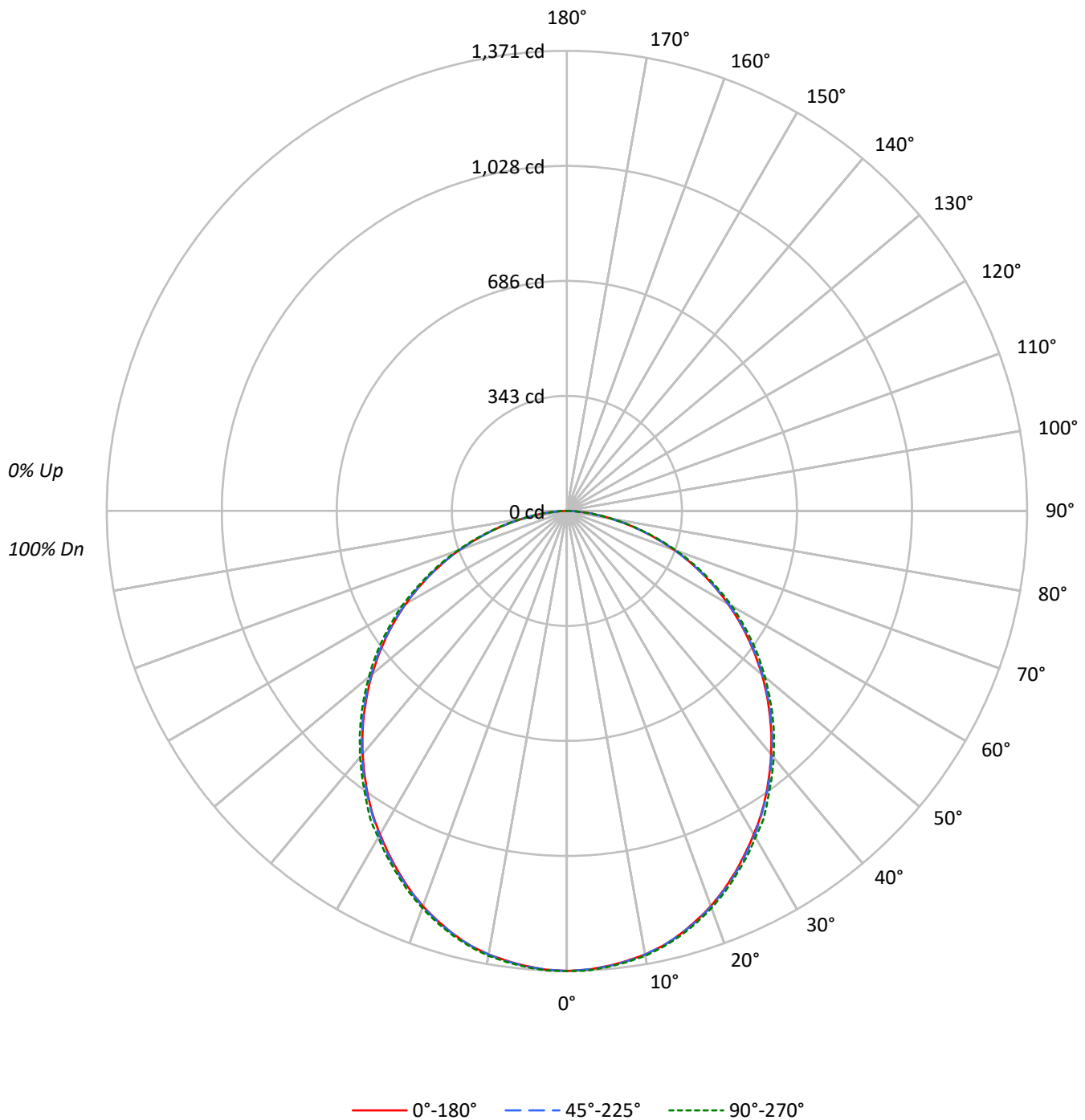
Lumens per Lamp: N/A
Luminaire Lumens: 3704.6 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	3689	3689	3689
5°	3680	3683	3687
10°	3668	3669	3680
15°	3638	3640	3650
20°	3590	3594	3607
25°	3525	3534	3550
30°	3459	3471	3492
35°	3396	3404	3432
40°	3325	3335	3365
45°	3252	3266	3299
50°	3173	3187	3224
55°	3083	3097	3148
60°	2981	2993	3060
65°	2850	2860	2914
70°	2676	2677	2736
75°	2432	2423	2479
80°	2089	2081	2115
85°	1621	1596	1602



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.6	3.5
10°-20°	368.5	9.9
20°-30°	548.6	14.8
30°-40°	648.8	17.5
40°-50°	662.3	17.9
50°-60°	591.1	16.0
60°-70°	445.2	12.0
70°-80°	248.3	6.7
80°-90°	62.2	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°	1046.7	28.3
0°-40°	1695.5	45.8
0°-60°	2948.9	79.6
0°-90°	3704.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3704.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1371	1371	1371	1371	1371	
5°	1362	1365	1363	1364	1365	129
15°	1306	1307	1307	1308	1310	368
25°	1187	1189	1190	1193	1196	547
35°	1034	1033	1036	1040	1045	646
45°	854	854	858	862	867	659
55°	657	656	660	665	671	587
65°	448	446	449	453	458	443
75°	234	232	233	234	238	248
85°	52	51	52	51	52	63
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1371.0	1371.0	1371.0	1371.0	1371.0
2.5°	1368.7	1371.0	1368.2	1368.7	1371.3
5°	1362.2	1364.8	1363.3	1363.6	1365.0
7.5°	1353.1	1356.5	1354.5	1355.1	1356.5
10°	1342.3	1344.9	1342.6	1344.0	1346.6
12.5°	1327.0	1328.1	1327.0	1327.6	1330.4
15°	1305.7	1307.1	1306.6	1307.7	1310.3
17.5°	1280.7	1282.4	1282.2	1284.4	1286.4
20°	1253.8	1254.1	1255.2	1257.5	1259.7
22.5°	1222.0	1222.8	1224.0	1227.1	1229.4
25°	1187.3	1188.8	1190.2	1193.3	1195.6
27.5°	1150.7	1152.2	1154.1	1157.5	1161.2
30°	1113.3	1113.3	1117.0	1120.4	1123.8
32.5°	1075.5	1074.1	1077.5	1081.8	1090.0
35°	1033.8	1032.6	1036.3	1040.3	1044.6
37.5°	990.4	989.5	993.8	998.0	1002.0
40°	946.4	945.2	949.5	953.7	958.0
42.5°	901.2	900.7	904.6	908.9	913.4
45°	854.4	854.1	858.1	862.3	866.9
47.5°	806.7	806.1	810.1	814.7	818.6
50°	757.9	757.3	761.3	765.8	770.1
52.5°	707.6	707.6	711.3	715.3	721.8
55°	657.1	656.3	660.2	664.8	671.0
57.5°	606.0	604.9	608.6	613.1	618.8
60°	553.8	552.7	556.1	560.6	568.6
62.5°	501.0	499.3	502.7	507.0	511.8
65°	447.6	445.9	449.1	453.0	457.6
67.5°	394.0	392.0	395.1	398.5	402.8
70°	340.1	338.1	340.3	343.7	347.7
72.5°	286.4	284.4	286.4	287.8	292.7
75°	233.9	231.9	233.0	234.2	238.4
77.5°	182.8	180.8	183.1	183.7	186.2
80°	134.8	132.8	134.3	134.5	136.5
82.5°	91.1	89.4	91.4	90.0	91.7
85°	52.5	51.1	51.7	51.1	51.9
87.5°	20.7	19.6	19.9	18.7	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)