

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: P834434

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-1STD-40-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834434
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-40-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

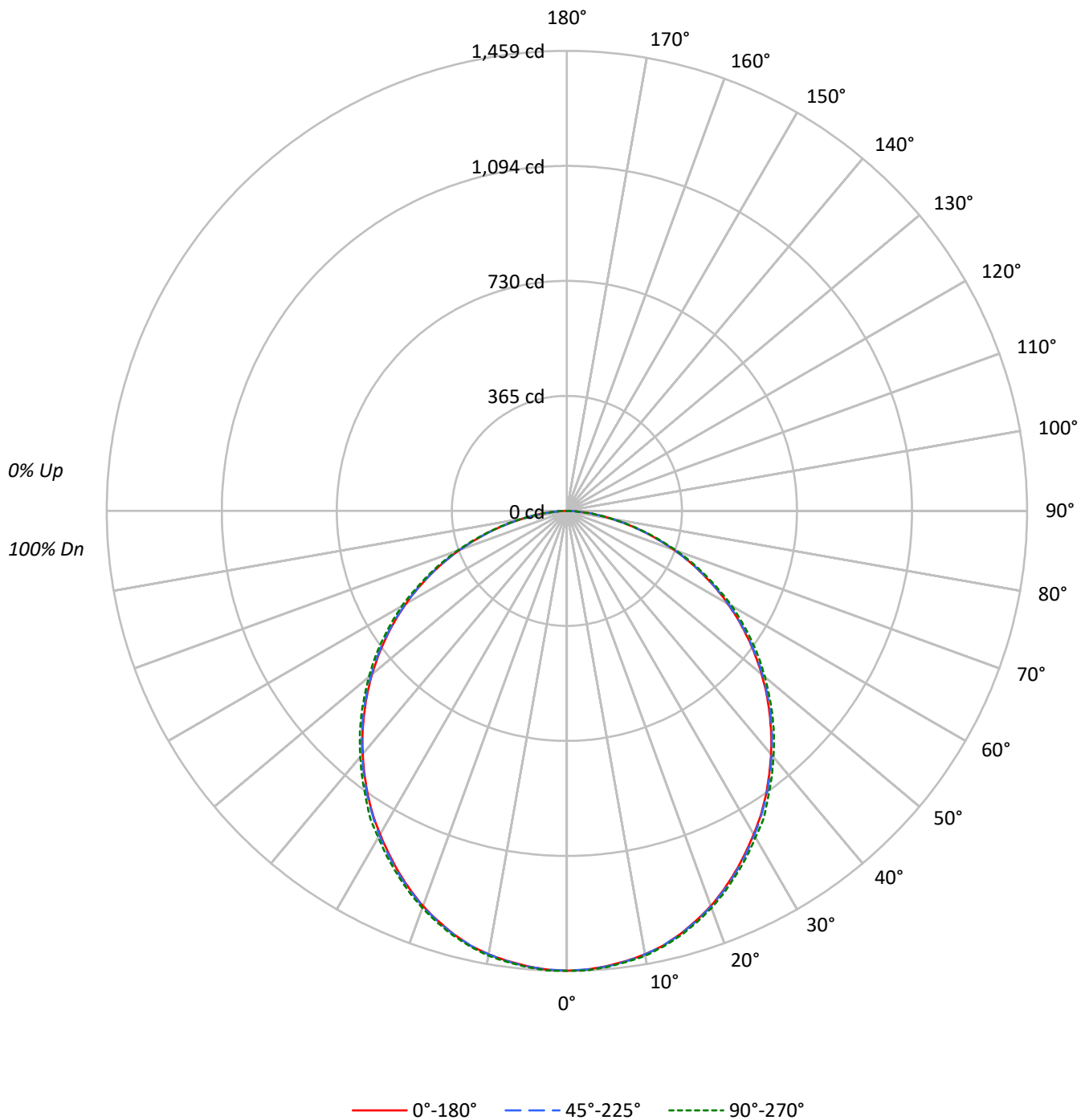
Lumens per Lamp: N/A
Luminaire Lumens: 3941.1 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	3925	3925	3925
5°	3914	3918	3923
10°	3902	3903	3914
15°	3870	3872	3883
20°	3820	3824	3838
25°	3750	3760	3776
30°	3680	3692	3715
35°	3613	3622	3650
40°	3537	3548	3580
45°	3459	3474	3510
50°	3376	3391	3430
55°	3280	3295	3349
60°	3171	3184	3255
65°	3032	3042	3100
70°	2847	2849	2910
75°	2587	2577	2638
80°	2222	2213	2250
85°	1726	1698	1707



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.8	3.5
10°-20°	392.0	9.9
20°-30°	583.6	14.8
30°-40°	690.2	17.5
40°-50°	704.6	17.9
50°-60°	628.8	16.0
60°-70°	473.6	12.0
70°-80°	264.1	6.7
80°-90°	66.2	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°	1113.5	28.3
0°-40°	1803.7	45.8
0°-60°	3137.2	79.6
0°-90°	3941.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3941.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1458	1458	1458	1458	1458	
5°	1449	1452	1450	1451	1452	138
15°	1389	1391	1390	1391	1394	392
25°	1263	1265	1266	1270	1272	582
35°	1100	1099	1102	1107	1111	688
45°	909	909	913	917	922	701
55°	699	698	702	707	714	625
65°	476	474	478	482	487	471
75°	249	247	248	249	254	264
85°	56	54	55	54	55	67
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1458.5	1458.5	1458.5	1458.5	1458.5
2.5°	1456.1	1458.5	1455.5	1456.1	1458.8
5°	1449.1	1451.9	1450.4	1450.7	1452.2
7.5°	1439.5	1443.1	1441.0	1441.6	1443.1
10°	1428.0	1430.7	1428.3	1429.8	1432.5
12.5°	1411.7	1412.9	1411.7	1412.3	1415.3
15°	1389.1	1390.6	1390.0	1391.2	1393.9
17.5°	1362.5	1364.3	1364.0	1366.4	1368.5
20°	1333.8	1334.1	1335.3	1337.7	1340.1
22.5°	1300.0	1300.9	1302.1	1305.4	1307.8
25°	1263.1	1264.6	1266.2	1269.5	1271.9
27.5°	1224.2	1225.7	1227.8	1231.4	1235.4
30°	1184.3	1184.3	1188.2	1191.9	1195.5
32.5°	1144.2	1142.7	1146.3	1150.8	1159.6
35°	1099.8	1098.6	1102.5	1106.7	1111.2
37.5°	1053.6	1052.7	1057.2	1061.7	1066.0
40°	1006.8	1005.6	1010.1	1014.6	1019.1
42.5°	958.8	958.1	962.4	966.9	971.7
45°	908.9	908.6	912.9	917.4	922.2
47.5°	858.2	857.6	861.8	866.7	870.9
50°	806.3	805.7	809.9	814.7	819.2
52.5°	752.8	752.8	756.7	761.0	767.9
55°	699.1	698.2	702.4	707.2	713.9
57.5°	644.7	643.5	647.4	652.3	658.3
60°	589.1	587.9	591.6	596.4	604.8
62.5°	533.0	531.2	534.8	539.3	544.5
65°	476.2	474.4	477.7	481.9	486.8
67.5°	419.1	417.0	420.3	424.0	428.5
70°	361.8	359.6	362.1	365.7	369.9
72.5°	304.7	302.6	304.7	306.2	311.3
75°	248.8	246.7	247.9	249.1	253.7
77.5°	194.5	192.4	194.8	195.4	198.1
80°	143.4	141.3	142.8	143.1	145.2
82.5°	96.9	95.1	97.2	95.7	97.5
85°	55.9	54.4	55.0	54.4	55.3
87.5°	22.0	20.8	21.1	19.9	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)