

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: P835592

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-3STD-20-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835592
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-2-INS-OPL-LD4-3STD-20-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

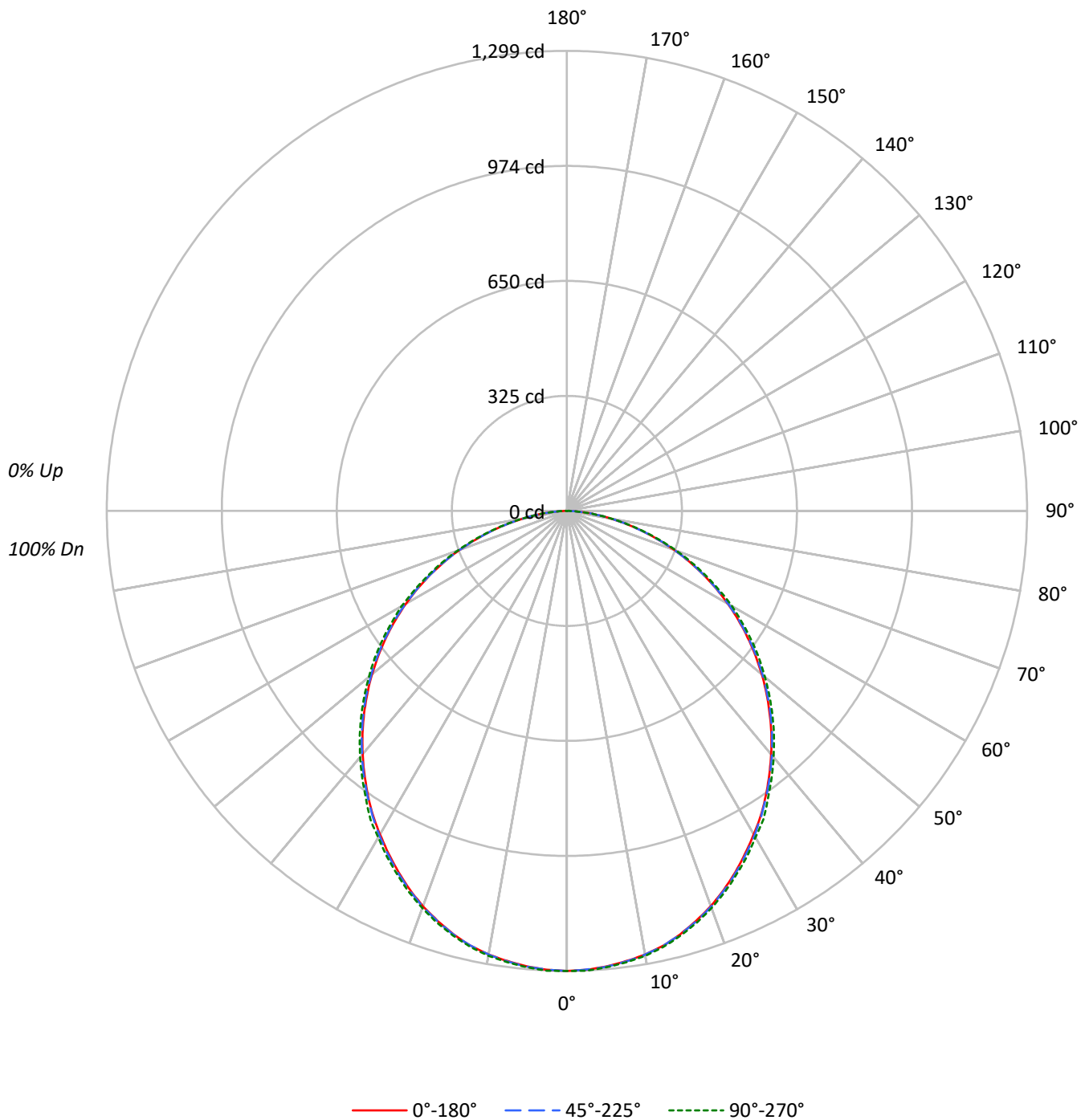
Lumens per Lamp: N/A
Luminaire Lumens: 3510.4 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10		0
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	27		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3496	3496	3496
5°	3487	3490	3494
10°	3476	3476	3487
15°	3447	3449	3459
20°	3402	3406	3418
25°	3341	3349	3364
30°	3278	3289	3309
35°	3218	3226	3252
40°	3150	3160	3189
45°	3081	3094	3126
50°	3007	3020	3055
55°	2921	2935	2983
60°	2824	2836	2899
65°	2701	2709	2761
70°	2535	2537	2592
75°	2304	2296	2349
80°	1980	1971	2005
85°	1538	1513	1519



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.8	3.5
10°-20°	349.2	9.9
20°-30°	519.9	14.8
30°-40°	614.8	17.5
40°-50°	627.6	17.9
50°-60°	560.1	16.0
60°-70°	421.9	12.0
70°-80°	235.3	6.7
80°-90°	58.9	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°	991.8	28.3
0°-40°	1606.6	45.8
0°-60°	2794.3	79.6
0°-90°	3510.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3510.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1299	1299	1299	1299	1299	
5°	1291	1293	1292	1292	1294	123
15°	1237	1239	1238	1239	1242	349
25°	1125	1126	1128	1131	1133	518
35°	980	978	982	986	990	613
45°	810	809	813	817	821	625
55°	623	622	626	630	636	557
65°	424	423	426	429	434	420
75°	222	220	221	222	226	235
85°	50	48	49	48	49	60
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1299.1	1299.1	1299.1	1299.1	1299.1
2.5°	1297.0	1299.1	1296.4	1297.0	1299.4
5°	1290.8	1293.2	1291.9	1292.1	1293.5
7.5°	1282.2	1285.4	1283.5	1284.1	1285.4
10°	1272.0	1274.4	1272.2	1273.6	1276.0
12.5°	1257.4	1258.5	1257.4	1258.0	1260.7
15°	1237.3	1238.6	1238.1	1239.2	1241.6
17.5°	1213.6	1215.2	1214.9	1217.1	1219.0
20°	1188.0	1188.3	1189.4	1191.5	1193.7
22.5°	1157.9	1158.7	1159.8	1162.8	1164.9
25°	1125.1	1126.5	1127.8	1130.8	1132.9
27.5°	1090.4	1091.8	1093.6	1096.9	1100.4
30°	1054.9	1054.9	1058.4	1061.6	1064.9
32.5°	1019.1	1017.8	1021.0	1025.0	1032.8
35°	979.6	978.5	982.0	985.8	989.8
37.5°	938.4	937.6	941.7	945.7	949.5
40°	896.8	895.7	899.7	903.7	907.8
42.5°	854.0	853.4	857.2	861.2	865.5
45°	809.6	809.3	813.1	817.1	821.4
47.5°	764.4	763.9	767.6	771.9	775.7
50°	718.2	717.6	721.4	725.7	729.7
52.5°	670.5	670.5	674.0	677.8	684.0
55°	622.7	621.9	625.6	629.9	635.8
57.5°	574.3	573.2	576.7	581.0	586.4
60°	524.8	523.7	526.9	531.2	538.7
62.5°	474.7	473.1	476.3	480.4	485.0
65°	424.2	422.6	425.5	429.3	433.6
67.5°	373.3	371.4	374.4	377.6	381.7
70°	322.2	320.3	322.5	325.7	329.5
72.5°	271.4	269.5	271.4	272.7	277.3
75°	221.6	219.7	220.8	221.9	225.9
77.5°	173.2	171.3	173.5	174.0	176.4
80°	127.8	125.9	127.2	127.5	129.4
82.5°	86.3	84.7	86.6	85.3	86.9
85°	49.8	48.4	49.0	48.4	49.2
87.5°	19.6	18.6	18.8	17.8	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)