

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: P835644

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-2HI-35-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835644
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-LD4-2HI-35-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

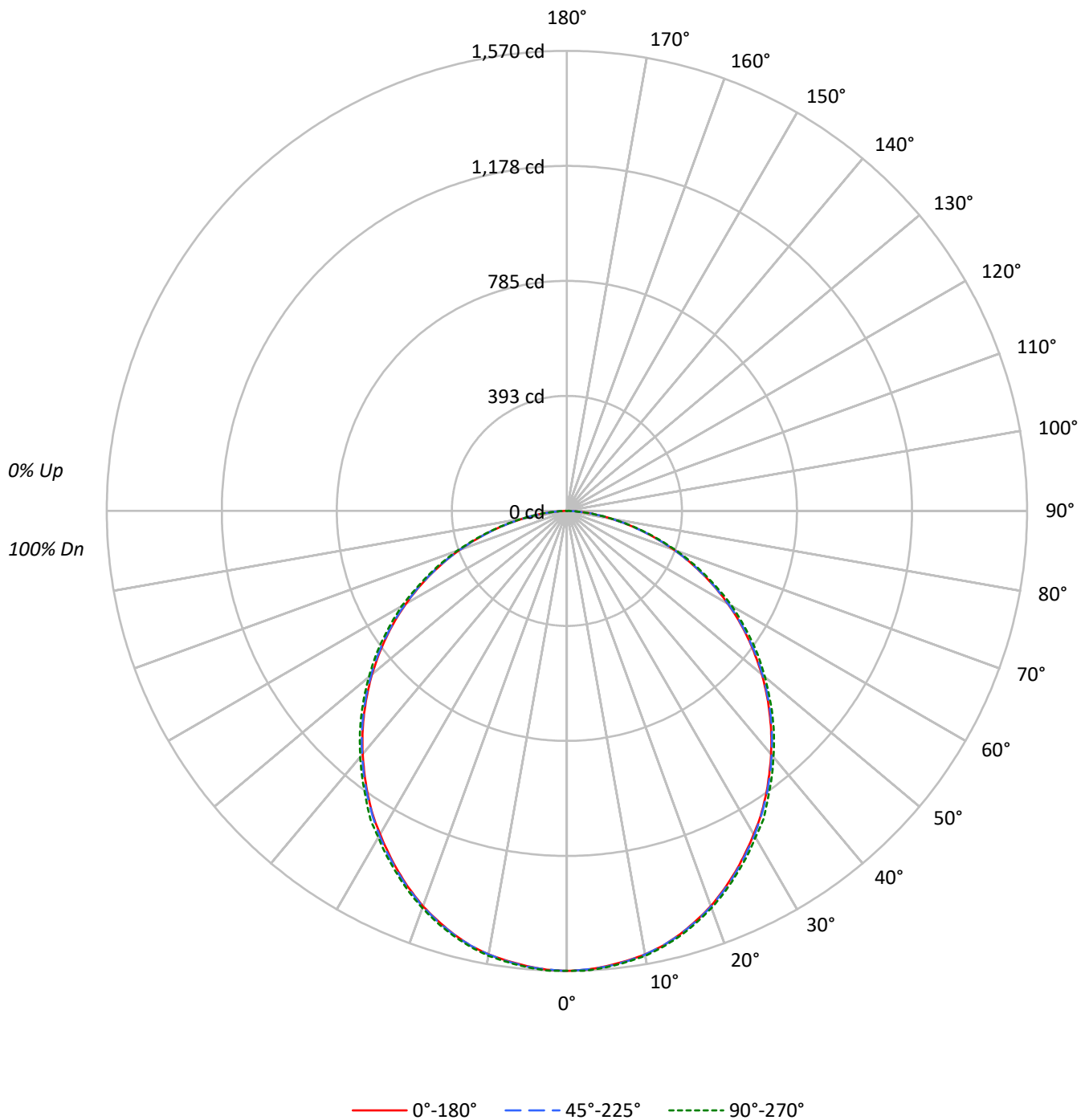
Lumens per Lamp: N/A
Luminaire Lumens: 4241.7 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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°	4224	4224	4224
5°	4213	4217	4222
10°	4200	4201	4213
15°	4165	4168	4179
20°	4111	4116	4131
25°	4037	4046	4064
30°	3961	3974	3998
35°	3889	3898	3929
40°	3806	3819	3853
45°	3723	3739	3777
50°	3633	3649	3691
55°	3530	3547	3605
60°	3413	3427	3504
65°	3263	3274	3336
70°	3064	3066	3132
75°	2784	2774	2838
80°	2393	2382	2422
85°	1856	1828	1837

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.3	3.5
10°-20°	422.0	9.9
20°-30°	628.2	14.8
30°-40°	742.9	17.5
40°-50°	758.4	17.9
50°-60°	676.8	16.0
60°-70°	509.8	12.0
70°-80°	284.3	6.7
80°-90°	71.2	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°	1198.5	28.3
0°-40°	1941.3	45.8
0°-60°	3376.5	79.6
0°-90°	4241.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4241.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1570	1570	1570	1570	1570	
5°	1560	1563	1561	1561	1563	148
15°	1495	1497	1496	1497	1500	421
25°	1360	1361	1363	1366	1369	626
35°	1184	1182	1187	1191	1196	740
45°	978	978	982	987	993	755
55°	752	751	756	761	768	673
65°	512	511	514	519	524	507
75°	268	266	267	268	273	284
85°	60	58	59	58	60	72
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1569.8	1569.8	1569.8	1569.8	1569.8
2.5°	1567.2	1569.8	1566.5	1567.2	1570.1
5°	1559.7	1562.6	1561.0	1561.3	1563.0
7.5°	1549.3	1553.2	1550.9	1551.6	1553.2
10°	1537.0	1539.9	1537.3	1538.9	1541.8
12.5°	1519.4	1520.7	1519.4	1520.1	1523.3
15°	1495.0	1496.7	1496.0	1497.3	1500.2
17.5°	1466.4	1468.4	1468.1	1470.7	1472.9
20°	1435.6	1435.9	1437.2	1439.8	1442.4
22.5°	1399.2	1400.1	1401.4	1405.0	1407.6
25°	1359.5	1361.1	1362.8	1366.3	1368.9
27.5°	1317.6	1319.2	1321.5	1325.4	1329.6
30°	1274.7	1274.7	1278.9	1282.8	1286.7
32.5°	1231.5	1229.8	1233.7	1238.6	1248.0
35°	1183.7	1182.4	1186.6	1191.2	1196.0
37.5°	1133.9	1133.0	1137.8	1142.7	1147.3
40°	1083.6	1082.3	1087.1	1092.0	1096.9
42.5°	1031.9	1031.2	1035.8	1040.7	1045.9
45°	978.3	977.9	982.5	987.4	992.6
47.5°	923.7	923.0	927.6	932.8	937.3
50°	867.8	867.1	871.7	876.9	881.7
52.5°	810.2	810.2	814.5	819.0	826.5
55°	752.4	751.4	756.0	761.2	768.3
57.5°	693.9	692.6	696.8	702.0	708.5
60°	634.1	632.8	636.7	641.9	651.0
62.5°	573.6	571.7	575.6	580.5	586.0
65°	512.5	510.6	514.2	518.7	523.9
67.5°	451.1	448.8	452.4	456.3	461.2
70°	389.4	387.1	389.7	393.6	398.1
72.5°	327.9	325.7	327.9	329.6	335.1
75°	267.8	265.5	266.8	268.1	273.0
77.5°	209.3	207.0	209.6	210.3	213.2
80°	154.4	152.1	153.7	154.1	156.3
82.5°	104.3	102.4	104.7	103.0	105.0
85°	60.1	58.5	59.2	58.5	59.5
87.5°	23.7	22.4	22.8	21.5	21.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)