

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P835587

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-1HI-20-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835587
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-LD4-1HI-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

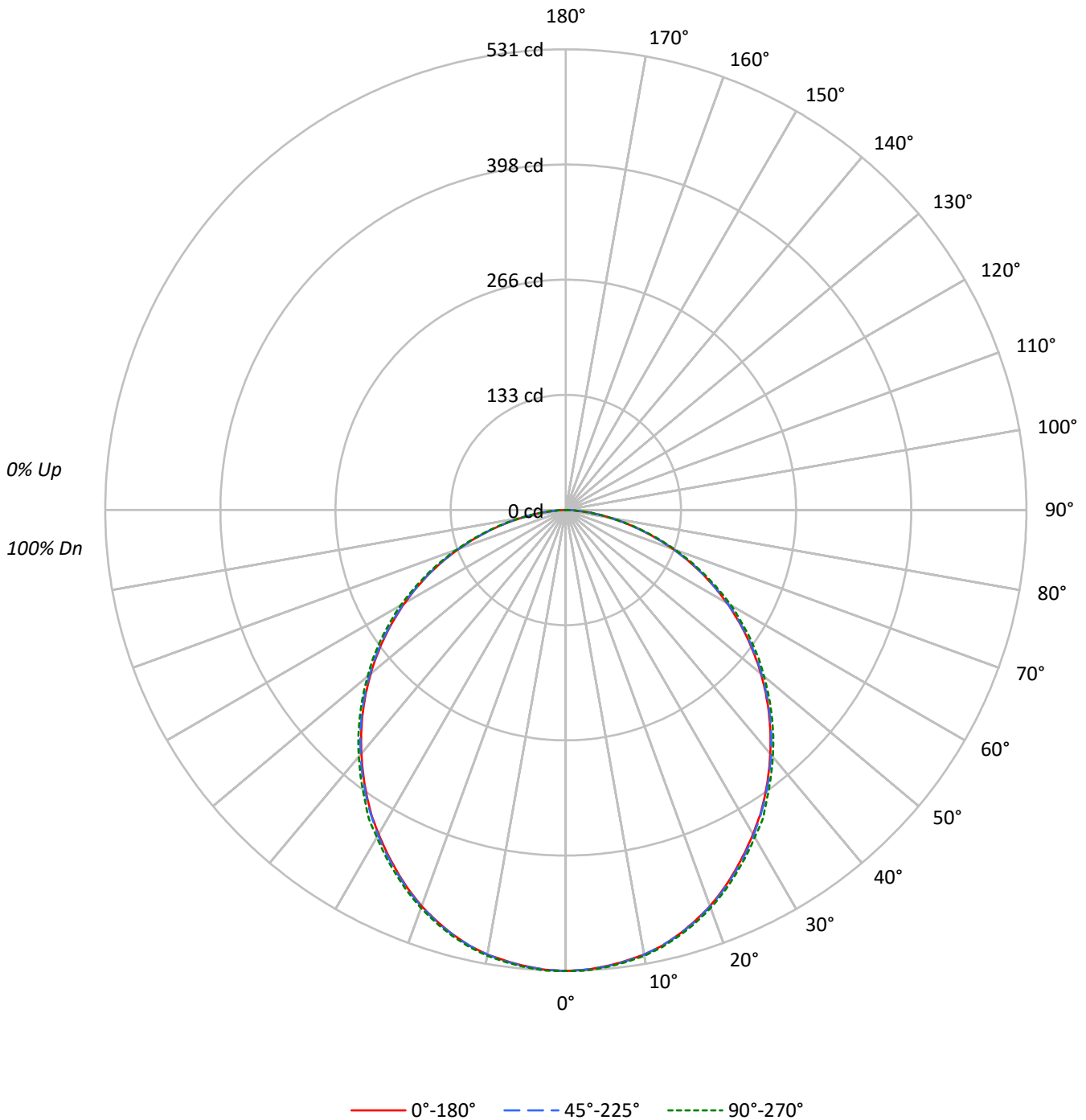
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1435.6 lumens
Efficiency: N/A
Efficacy: 65.3 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): 22
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





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	86	86	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	46	46	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	40	40	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	36	36	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	32	32	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	27	27	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1430	1430	1430
5°	1426	1427	1429
10°	1421	1422	1426
15°	1410	1411	1414
20°	1391	1393	1398
25°	1366	1369	1376
30°	1340	1345	1353
35°	1316	1319	1330
40°	1288	1292	1304
45°	1260	1265	1278
50°	1230	1235	1249
55°	1194	1201	1220
60°	1155	1160	1186
65°	1105	1108	1129
70°	1037	1038	1060
75°	942	939	961
80°	809	806	820
85°	627	618	621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.2	3.5
10°-20°	142.8	9.9
20°-30°	212.6	14.8
30°-40°	251.4	17.5
40°-50°	256.7	17.9
50°-60°	229.1	16.0
60°-70°	172.5	12.0
70°-80°	96.2	6.7
80°-90°	24.1	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°	405.6	28.3
0°-40°	657.0	45.8
0°-60°	1142.7	79.6
0°-90°	1435.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1435.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	531	531	531	531	531	
5°	528	529	528	528	529	50
15°	506	506	506	507	508	143
25°	460	461	461	462	463	212
35°	401	400	402	403	405	251
45°	331	331	332	334	336	255
55°	255	254	256	258	260	228
65°	174	173	174	176	177	172
75°	91	90	90	91	92	96
85°	20	20	20	20	20	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	531.3	531.3	531.3	531.3	531.3
2.5°	530.4	531.3	530.2	530.4	531.4
5°	527.9	528.9	528.3	528.4	529.0
7.5°	524.4	525.7	524.9	525.1	525.7
10°	520.2	521.2	520.3	520.8	521.8
12.5°	514.2	514.7	514.2	514.5	515.6
15°	506.0	506.5	506.3	506.8	507.7
17.5°	496.3	497.0	496.9	497.7	498.5
20°	485.9	486.0	486.4	487.3	488.2
22.5°	473.5	473.9	474.3	475.5	476.4
25°	460.1	460.7	461.2	462.4	463.3
27.5°	445.9	446.5	447.2	448.6	450.0
30°	431.4	431.4	432.8	434.2	435.5
32.5°	416.8	416.2	417.5	419.2	422.4
35°	400.6	400.2	401.6	403.1	404.8
37.5°	383.8	383.4	385.1	386.7	388.3
40°	366.7	366.3	367.9	369.6	371.2
42.5°	349.2	349.0	350.6	352.2	354.0
45°	331.1	331.0	332.5	334.2	335.9
47.5°	312.6	312.4	313.9	315.7	317.2
50°	293.7	293.5	295.0	296.8	298.4
52.5°	274.2	274.2	275.7	277.2	279.7
55°	254.6	254.3	255.9	257.6	260.0
57.5°	234.8	234.4	235.8	237.6	239.8
60°	214.6	214.2	215.5	217.2	220.3
62.5°	194.1	193.5	194.8	196.5	198.3
65°	173.5	172.8	174.0	175.6	177.3
67.5°	152.7	151.9	153.1	154.4	156.1
70°	131.8	131.0	131.9	133.2	134.7
72.5°	111.0	110.2	111.0	111.5	113.4
75°	90.6	89.9	90.3	90.7	92.4
77.5°	70.8	70.1	70.9	71.2	72.2
80°	52.2	51.5	52.0	52.1	52.9
82.5°	35.3	34.6	35.4	34.9	35.5
85°	20.3	19.8	20.0	19.8	20.1
87.5°	8.0	7.6	7.7	7.3	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)