

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: P835639

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-1LO-35-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835639
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-LD4-1LO-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

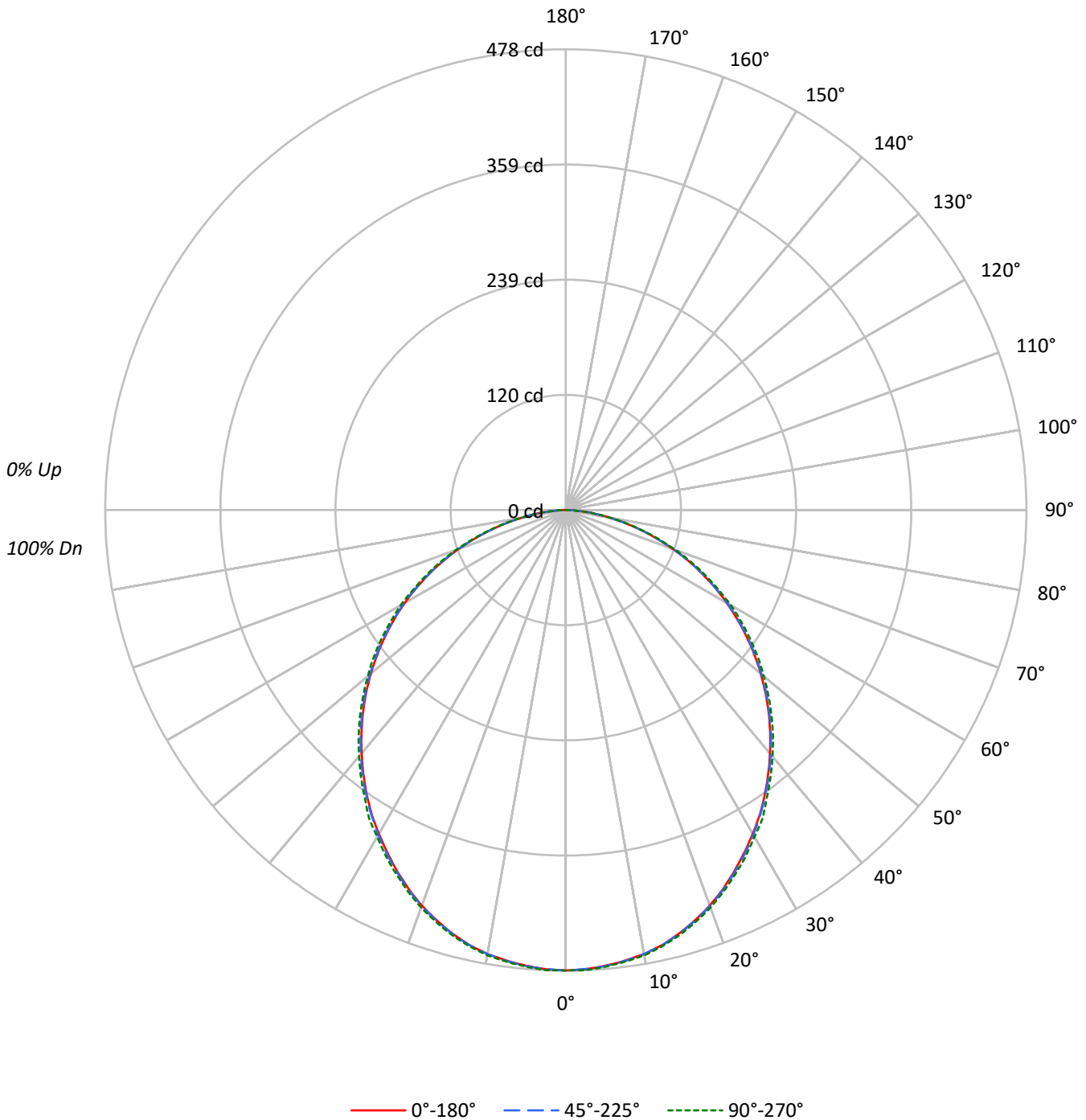
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1290.8 lumens
Efficiency: N/A
Efficacy: 110.3 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): 11.7
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				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	26	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1285	1285	1285
5°	1282	1283	1285
10°	1278	1278	1282
15°	1267	1268	1272
20°	1251	1252	1257
25°	1228	1231	1237
30°	1205	1209	1216
35°	1183	1186	1195
40°	1158	1162	1173
45°	1133	1138	1149
50°	1106	1110	1123
55°	1074	1079	1097
60°	1039	1042	1066
65°	993	996	1015
70°	932	933	954
75°	847	844	864
80°	728	725	738
85°	565	556	559



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.1	3.5
10°-20°	128.4	9.9
20°-30°	191.1	14.8
30°-40°	226.1	17.5
40°-50°	230.8	17.9
50°-60°	205.9	16.0
60°-70°	155.1	12.0
70°-80°	86.5	6.7
80°-90°	21.7	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°	364.7	28.3
0°-40°	590.7	45.8
0°-60°	1027.5	79.6
0°-90°	1290.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1290.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	478	478	478	478	478	
5°	475	476	475	475	476	45
15°	455	455	455	456	456	128
25°	414	414	415	416	417	191
35°	360	360	361	362	364	225
45°	298	298	299	300	302	230
55°	229	229	230	232	234	205
65°	156	155	156	158	159	154
75°	82	81	81	82	83	86
85°	18	18	18	18	18	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	477.7	477.7	477.7	477.7	477.7
2.5°	476.9	477.7	476.7	476.9	477.8
5°	474.6	475.5	475.0	475.1	475.6
7.5°	471.5	472.6	471.9	472.1	472.6
10°	467.7	468.6	467.8	468.3	469.2
12.5°	462.4	462.7	462.4	462.5	463.5
15°	454.9	455.4	455.2	455.6	456.5
17.5°	446.2	446.8	446.7	447.5	448.2
20°	436.8	436.9	437.3	438.1	438.9
22.5°	425.8	426.1	426.5	427.5	428.3
25°	413.7	414.2	414.7	415.8	416.6
27.5°	400.9	401.4	402.1	403.3	404.6
30°	387.9	387.9	389.2	390.4	391.5
32.5°	374.7	374.2	375.4	376.9	379.8
35°	360.2	359.8	361.1	362.5	363.9
37.5°	345.1	344.8	346.2	347.7	349.1
40°	329.7	329.3	330.8	332.3	333.8
42.5°	314.0	313.8	315.2	316.7	318.3
45°	297.7	297.6	299.0	300.5	302.0
47.5°	281.1	280.9	282.3	283.8	285.2
50°	264.1	263.9	265.2	266.8	268.3
52.5°	246.6	246.6	247.8	249.2	251.5
55°	229.0	228.7	230.0	231.6	233.8
57.5°	211.1	210.8	212.0	213.6	215.6
60°	193.0	192.6	193.7	195.3	198.1
62.5°	174.6	174.0	175.1	176.6	178.3
65°	156.0	155.4	156.5	157.8	159.4
67.5°	137.3	136.6	137.7	138.9	140.3
70°	118.5	117.8	118.6	119.8	121.2
72.5°	99.8	99.1	99.8	100.3	102.0
75°	81.5	80.8	81.2	81.6	83.1
77.5°	63.7	63.0	63.8	64.0	64.9
80°	47.0	46.3	46.8	46.9	47.6
82.5°	31.7	31.2	31.8	31.4	31.9
85°	18.3	17.8	18.0	17.8	18.1
87.5°	7.2	6.8	6.9	6.5	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)