

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: P835747

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-1LO-35-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835747
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-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

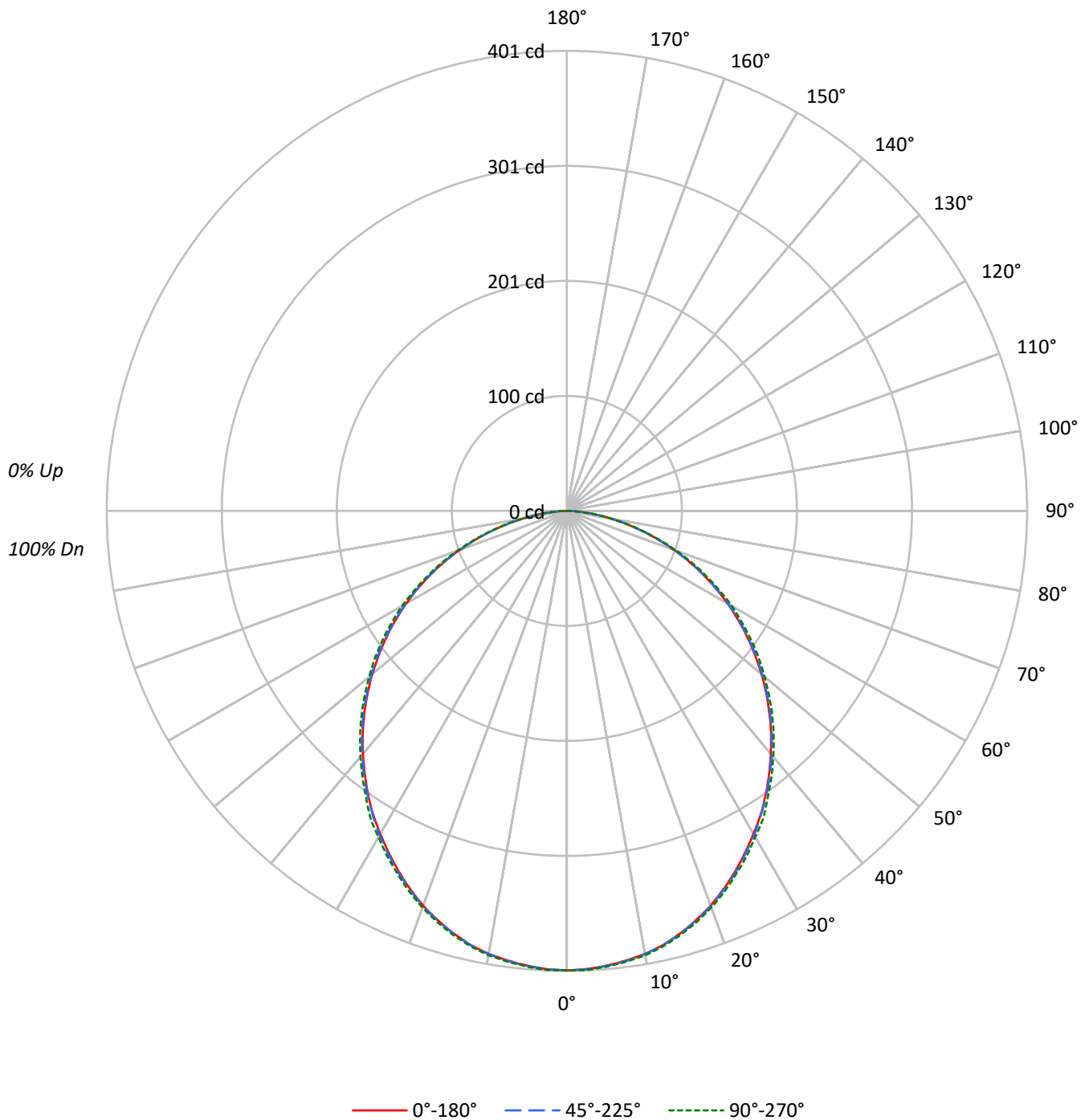
Lumens per Lamp: N/A
Luminaire Lumens: 1082.1 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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



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	30	10	50	30	10
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	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1078	1078	1078
5°	1075	1076	1077
10°	1071	1072	1075
15°	1063	1063	1066
20°	1049	1050	1054
25°	1030	1032	1037
30°	1010	1014	1020
35°	992	994	1002
40°	971	974	983
45°	950	954	964
50°	927	931	942
55°	900	905	920
60°	871	874	894
65°	833	835	851
70°	781	782	799
75°	710	708	724
80°	611	607	618
85°	472	466	469

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.8	3.5
10°-20°	107.6	9.9
20°-30°	160.3	14.8
30°-40°	189.5	17.5
40°-50°	193.5	17.9
50°-60°	172.7	16.0
60°-70°	130.0	12.0
70°-80°	72.5	6.7
80°-90°	18.2	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°	305.7	28.3
0°-40°	495.3	45.8
0°-60°	861.4	79.6
0°-90°	1082.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1082.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	400	400	400	400	400	
5°	398	399	398	398	399	38
15°	381	382	382	382	383	107
25°	347	347	348	349	349	160
35°	302	302	303	304	305	189
45°	250	250	251	252	253	193
55°	192	192	193	194	196	172
65°	131	130	131	132	134	129
75°	68	68	68	68	70	72
85°	15	15	15	15	15	18
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	400.5	400.5	400.5	400.5	400.5
2.5°	399.8	400.5	399.7	399.8	400.6
5°	397.9	398.7	398.2	398.3	398.7
7.5°	395.3	396.3	395.7	395.8	396.3
10°	392.1	392.9	392.2	392.6	393.3
12.5°	387.6	388.0	387.6	387.8	388.6
15°	381.4	381.8	381.7	382.0	382.7
17.5°	374.1	374.6	374.5	375.2	375.8
20°	366.2	366.3	366.7	367.3	368.0
22.5°	356.9	357.2	357.5	358.4	359.1
25°	346.8	347.2	347.7	348.6	349.2
27.5°	336.1	336.6	337.1	338.1	339.2
30°	325.2	325.2	326.3	327.3	328.3
32.5°	314.2	313.8	314.7	316.0	318.4
35°	302.0	301.6	302.7	303.9	305.1
37.5°	289.3	289.0	290.3	291.5	292.7
40°	276.4	276.1	277.4	278.6	279.8
42.5°	263.3	263.1	264.3	265.5	266.8
45°	249.6	249.5	250.7	251.9	253.2
47.5°	235.6	235.5	236.6	238.0	239.1
50°	221.4	221.2	222.4	223.7	224.9
52.5°	206.7	206.7	207.8	208.9	210.9
55°	191.9	191.7	192.9	194.2	196.0
57.5°	177.0	176.7	177.8	179.1	180.8
60°	161.8	161.4	162.4	163.8	166.1
62.5°	146.3	145.8	146.8	148.1	149.5
65°	130.8	130.3	131.2	132.3	133.7
67.5°	115.1	114.5	115.4	116.4	117.7
70°	99.3	98.8	99.4	100.4	101.6
72.5°	83.7	83.1	83.7	84.1	85.5
75°	68.3	67.7	68.1	68.4	69.6
77.5°	53.4	52.8	53.5	53.6	54.4
80°	39.4	38.8	39.2	39.3	39.9
82.5°	26.6	26.1	26.7	26.3	26.8
85°	15.3	14.9	15.1	14.9	15.2
87.5°	6.1	5.7	5.8	5.5	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)