

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: P835695

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-1HI-20-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835695
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-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

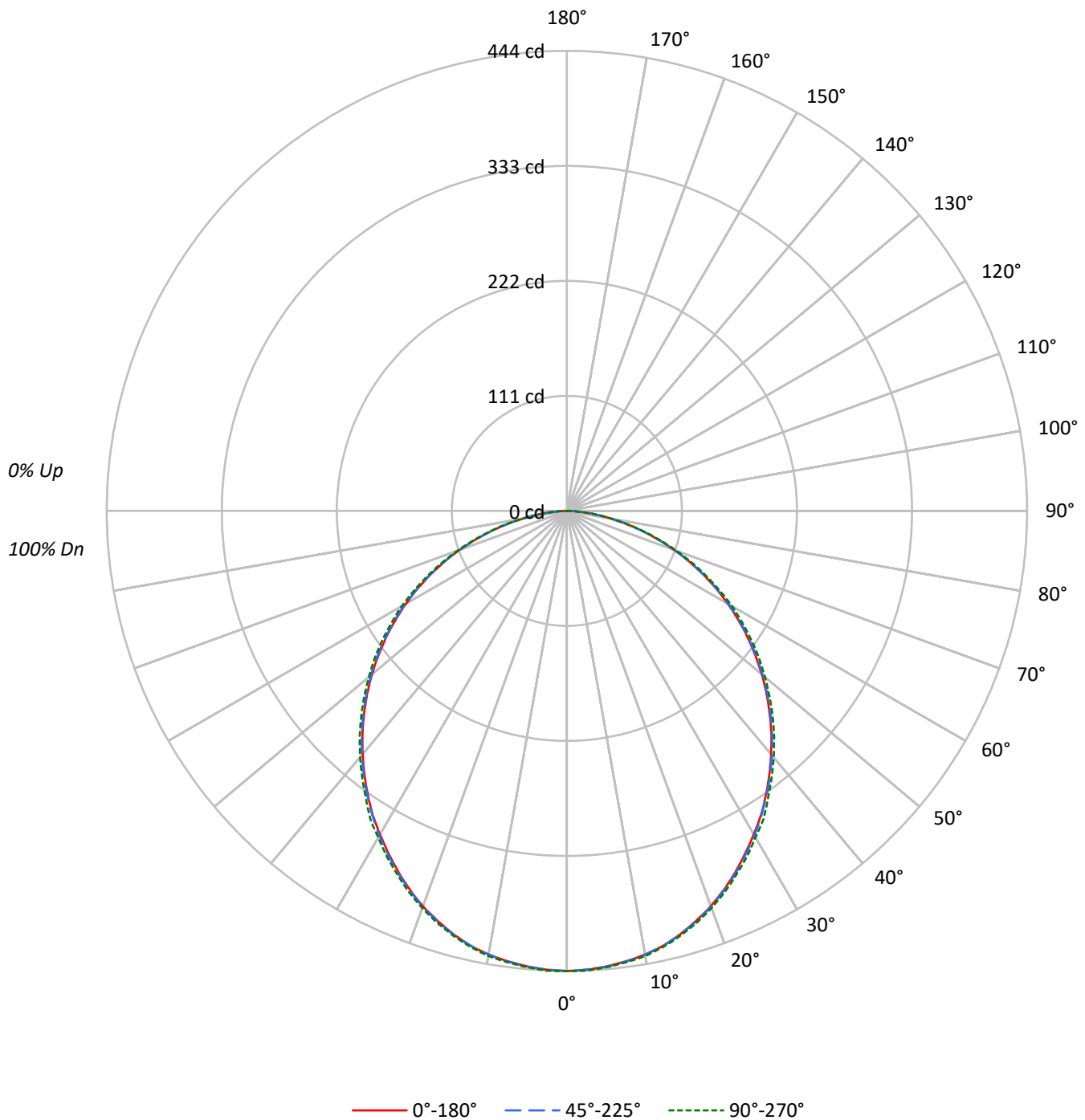
Lumens per Lamp: N/A
Luminaire Lumens: 1199.9 lumens
Efficiency: N/A
Efficacy: 54.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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



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	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1195	1195	1195
5°	1192	1193	1194
10°	1188	1188	1192
15°	1178	1179	1182
20°	1163	1164	1168
25°	1142	1145	1150
30°	1120	1124	1131
35°	1100	1103	1111
40°	1077	1080	1090
45°	1053	1058	1069
50°	1028	1032	1044
55°	998	1003	1019
60°	966	969	991
65°	923	926	944
70°	866	867	886
75°	788	785	803
80°	677	674	685
85°	525	516	519

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.0	3.5
10°-20°	119.4	9.9
20°-30°	177.7	14.8
30°-40°	210.1	17.5
40°-50°	214.5	17.9
50°-60°	191.4	16.0
60°-70°	144.2	12.0
70°-80°	80.4	6.7
80°-90°	20.1	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°	339.0	28.3
0°-40°	549.2	45.8
0°-60°	955.1	79.6
0°-90°	1199.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1199.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	444	444	444	444	444	
5°	441	442	442	442	442	42
15°	423	423	423	424	424	119
25°	385	385	386	386	387	177
35°	335	334	336	337	338	209
45°	277	277	278	279	281	213
55°	213	213	214	215	217	190
65°	145	144	145	147	148	143
75°	76	75	76	76	77	80
85°	17	16	17	16	17	20
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	444.1	444.1	444.1	444.1	444.1
2.5°	443.3	444.1	443.1	443.3	444.2
5°	441.2	442.0	441.6	441.7	442.1
7.5°	438.3	439.4	438.7	438.9	439.4
10°	434.8	435.6	434.9	435.3	436.2
12.5°	429.8	430.2	429.8	430.0	430.9
15°	422.9	423.4	423.2	423.6	424.4
17.5°	414.8	415.4	415.3	416.0	416.7
20°	406.1	406.2	406.5	407.3	408.0
22.5°	395.8	396.1	396.4	397.4	398.2
25°	384.6	385.0	385.5	386.5	387.2
27.5°	372.7	373.2	373.8	374.9	376.1
30°	360.6	360.6	361.8	362.9	364.0
32.5°	348.4	347.9	349.0	350.4	353.0
35°	334.8	334.5	335.7	337.0	338.3
37.5°	320.8	320.5	321.9	323.3	324.5
40°	306.5	306.2	307.5	308.9	310.3
42.5°	291.9	291.7	293.0	294.4	295.9
45°	276.7	276.6	277.9	279.3	280.8
47.5°	261.3	261.1	262.4	263.9	265.1
50°	245.5	245.3	246.6	248.0	249.4
52.5°	229.2	229.2	230.4	231.7	233.8
55°	212.8	212.6	213.8	215.3	217.3
57.5°	196.3	195.9	197.1	198.6	200.4
60°	179.4	179.0	180.1	181.6	184.2
62.5°	162.3	161.7	162.8	164.2	165.8
65°	145.0	144.4	145.4	146.7	148.2
67.5°	127.6	127.0	128.0	129.1	130.5
70°	110.1	109.5	110.2	111.3	112.6
72.5°	92.8	92.1	92.8	93.2	94.8
75°	75.8	75.1	75.5	75.8	77.2
77.5°	59.2	58.6	59.3	59.5	60.3
80°	43.7	43.0	43.5	43.6	44.2
82.5°	29.5	29.0	29.6	29.1	29.7
85°	17.0	16.5	16.7	16.5	16.8
87.5°	6.7	6.3	6.4	6.1	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)