

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: P835586

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

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835586
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-LD4-1STD-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

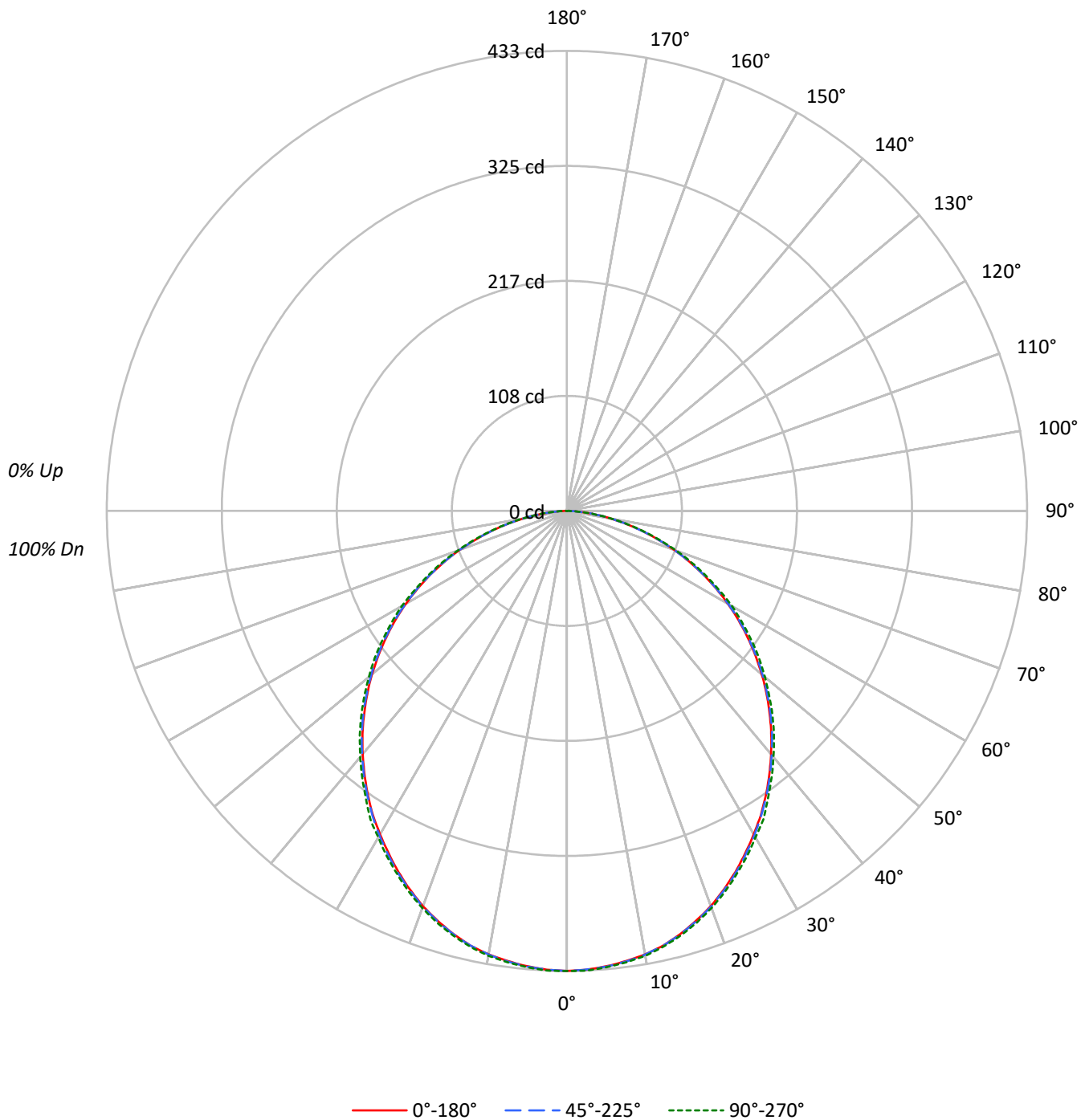
Lumens per Lamp: N/A
Luminaire Lumens: 1169.9 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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

TEST NUMBER: P835586

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-1STD-20-120-EDD

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835586

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-1STD-20-120-EDD

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°	1165	1165	1165
5°	1162	1163	1165
10°	1158	1159	1162
15°	1149	1149	1153
20°	1134	1135	1139
25°	1113	1116	1121
30°	1093	1096	1103
35°	1073	1075	1084
40°	1050	1053	1063
45°	1027	1031	1042
50°	1002	1006	1018
55°	974	978	994
60°	941	945	967
65°	900	903	920
70°	845	846	864
75°	768	765	783
80°	660	657	668
85°	513	503	506

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835586

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-1STD-20-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.9	3.5
10°-20°	116.4	9.9
20°-30°	173.3	14.8
30°-40°	204.9	17.5
40°-50°	209.2	17.9
50°-60°	186.7	16.0
60°-70°	140.6	12.0
70°-80°	78.4	6.7
80°-90°	19.6	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°	330.5	28.3
0°-40°	535.4	45.8
0°-60°	931.3	79.6
0°-90°	1169.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1169.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	433	433	433	433	433	
5°	430	431	430	431	431	41
15°	412	413	413	413	414	116
25°	375	375	376	377	378	173
35°	326	326	327	328	330	204
45°	270	270	271	272	274	208
55°	208	207	208	210	212	185
65°	141	141	142	143	144	140
75°	74	73	74	74	75	78
85°	17	16	16	16	16	20
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835586

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-1STD-20-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	433.0	433.0	433.0	433.0	433.0
2.5°	432.2	433.0	432.1	432.2	433.1
5°	430.2	431.0	430.5	430.6	431.1
7.5°	427.3	428.4	427.8	427.9	428.4
10°	423.9	424.7	424.0	424.4	425.3
12.5°	419.1	419.4	419.1	419.2	420.1
15°	412.3	412.8	412.6	413.0	413.8
17.5°	404.5	405.0	404.9	405.6	406.3
20°	395.9	396.0	396.4	397.1	397.8
22.5°	385.9	386.2	386.5	387.5	388.2
25°	375.0	375.4	375.9	376.8	377.6
27.5°	363.4	363.9	364.5	365.6	366.7
30°	351.6	351.6	352.7	353.8	354.9
32.5°	339.6	339.2	340.3	341.6	344.2
35°	326.5	326.1	327.3	328.5	329.9
37.5°	312.8	312.5	313.8	315.2	316.4
40°	298.9	298.5	299.8	301.2	302.5
42.5°	284.6	284.4	285.7	287.0	288.5
45°	269.8	269.7	271.0	272.3	273.8
47.5°	254.8	254.6	255.8	257.3	258.5
50°	239.3	239.2	240.4	241.9	243.2
52.5°	223.5	223.5	224.6	225.9	228.0
55°	207.5	207.2	208.5	209.9	211.9
57.5°	191.4	191.0	192.2	193.6	195.4
60°	174.9	174.5	175.6	177.0	179.6
62.5°	158.2	157.7	158.8	160.1	161.6
65°	141.4	140.8	141.8	143.1	144.5
67.5°	124.4	123.8	124.8	125.9	127.2
70°	107.4	106.8	107.5	108.6	109.8
72.5°	90.4	89.8	90.4	90.9	92.4
75°	73.9	73.2	73.6	74.0	75.3
77.5°	57.7	57.1	57.8	58.0	58.8
80°	42.6	42.0	42.4	42.5	43.1
82.5°	28.8	28.2	28.9	28.4	29.0
85°	16.6	16.1	16.3	16.1	16.4
87.5°	6.5	6.2	6.3	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)