

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: P835729

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-1LO-30-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835729
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-30-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

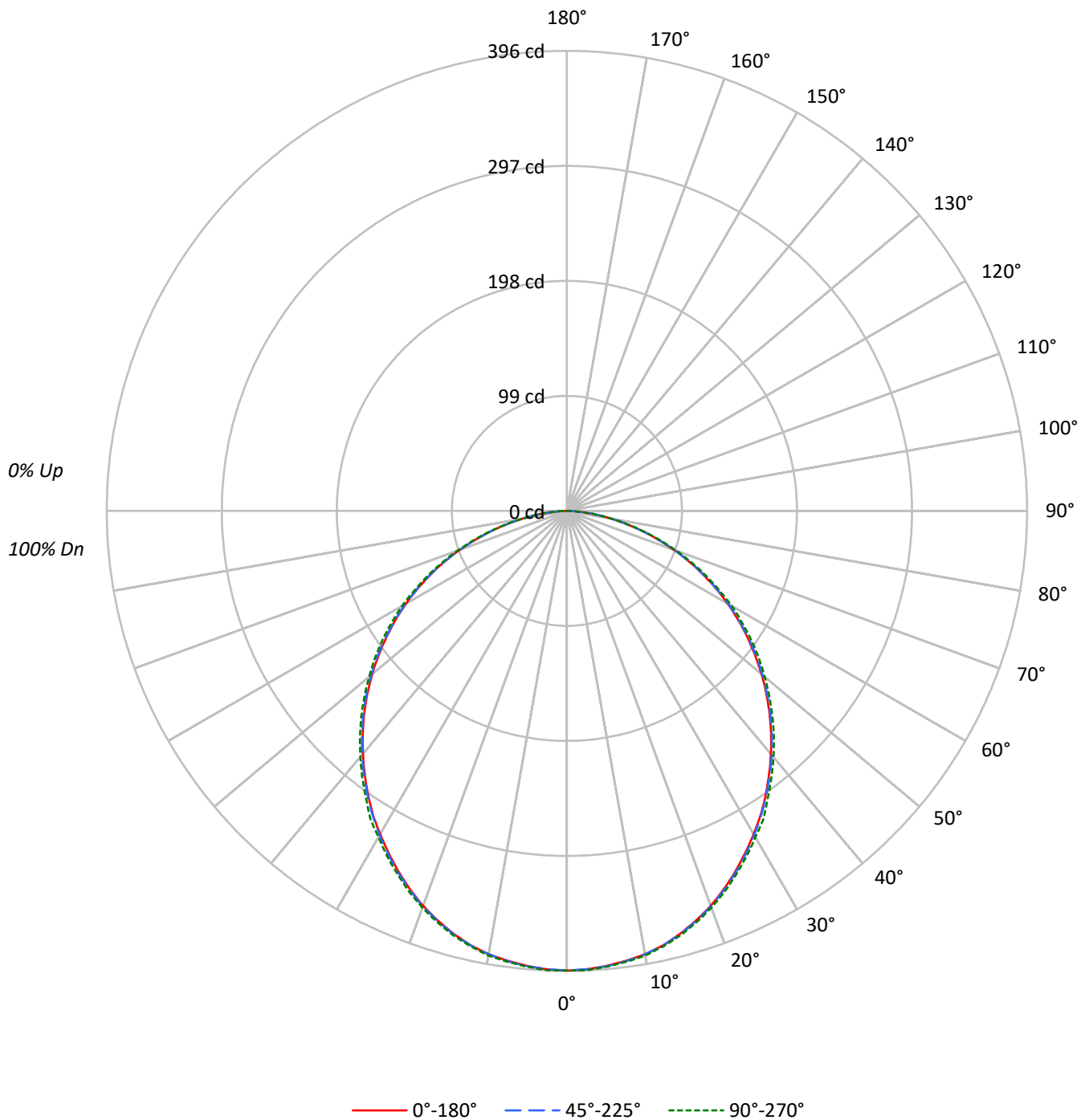
Lumens per Lamp: N/A
Luminaire Lumens: 1069.1 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1065	1065	1065
5°	1062	1063	1064
10°	1059	1059	1062
15°	1050	1051	1053
20°	1036	1037	1041
25°	1018	1020	1024
30°	998	1001	1008
35°	980	983	990
40°	959	963	971
45°	938	942	952
50°	916	920	930
55°	890	894	908
60°	860	864	883
65°	823	825	840
70°	772	773	789
75°	702	700	715
80°	603	600	611
85°	469	460	463

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.4	3.5
10°-20°	106.4	9.9
20°-30°	158.3	14.8
30°-40°	187.2	17.5
40°-50°	191.1	17.9
50°-60°	170.6	16.0
60°-70°	128.5	12.0
70°-80°	71.7	6.7
80°-90°	17.9	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°	302.1	28.3
0°-40°	489.3	45.8
0°-60°	851.0	79.6
0°-90°	1069.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1069.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	396	396	396	396	396	
5°	393	394	393	394	394	37
15°	377	377	377	377	378	106
25°	343	343	344	344	345	158
35°	298	298	299	300	302	187
45°	247	246	248	249	250	190
55°	190	189	190	192	194	169
65°	129	129	130	131	132	128
75°	68	67	67	68	69	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°	395.7	395.7	395.7	395.7	395.7
2.5°	395.0	395.7	394.8	395.0	395.7
5°	393.1	393.9	393.4	393.5	393.9
7.5°	390.5	391.5	390.9	391.1	391.5
10°	387.4	388.1	387.5	387.9	388.6
12.5°	383.0	383.3	383.0	383.1	383.9
15°	376.8	377.2	377.1	377.4	378.1
17.5°	369.6	370.1	370.0	370.7	371.2
20°	361.8	361.9	362.2	362.9	363.5
22.5°	352.6	352.9	353.2	354.1	354.8
25°	342.7	343.1	343.5	344.4	345.0
27.5°	332.1	332.5	333.1	334.1	335.1
30°	321.3	321.3	322.3	323.3	324.3
32.5°	310.4	310.0	311.0	312.2	314.6
35°	298.3	298.0	299.1	300.2	301.5
37.5°	285.8	285.6	286.8	288.0	289.2
40°	273.1	272.8	274.0	275.2	276.5
42.5°	260.1	259.9	261.1	262.3	263.6
45°	246.6	246.5	247.6	248.9	250.2
47.5°	232.8	232.6	233.8	235.1	236.2
50°	218.7	218.6	219.7	221.0	222.2
52.5°	204.2	204.2	205.3	206.4	208.3
55°	189.6	189.4	190.5	191.8	193.6
57.5°	174.9	174.6	175.6	176.9	178.6
60°	159.8	159.5	160.5	161.8	164.1
62.5°	144.6	144.1	145.1	146.3	147.7
65°	129.2	128.7	129.6	130.7	132.0
67.5°	113.7	113.1	114.0	115.0	116.2
70°	98.1	97.6	98.2	99.2	100.3
72.5°	82.7	82.1	82.7	83.1	84.5
75°	67.5	66.9	67.3	67.6	68.8
77.5°	52.8	52.2	52.8	53.0	53.7
80°	38.9	38.3	38.7	38.8	39.4
82.5°	26.3	25.8	26.4	26.0	26.5
85°	15.2	14.7	14.9	14.7	15.0
87.5°	6.0	5.7	5.7	5.4	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)