

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: P835800

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-6HI-50-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835800
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-LD4-6HI-50-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

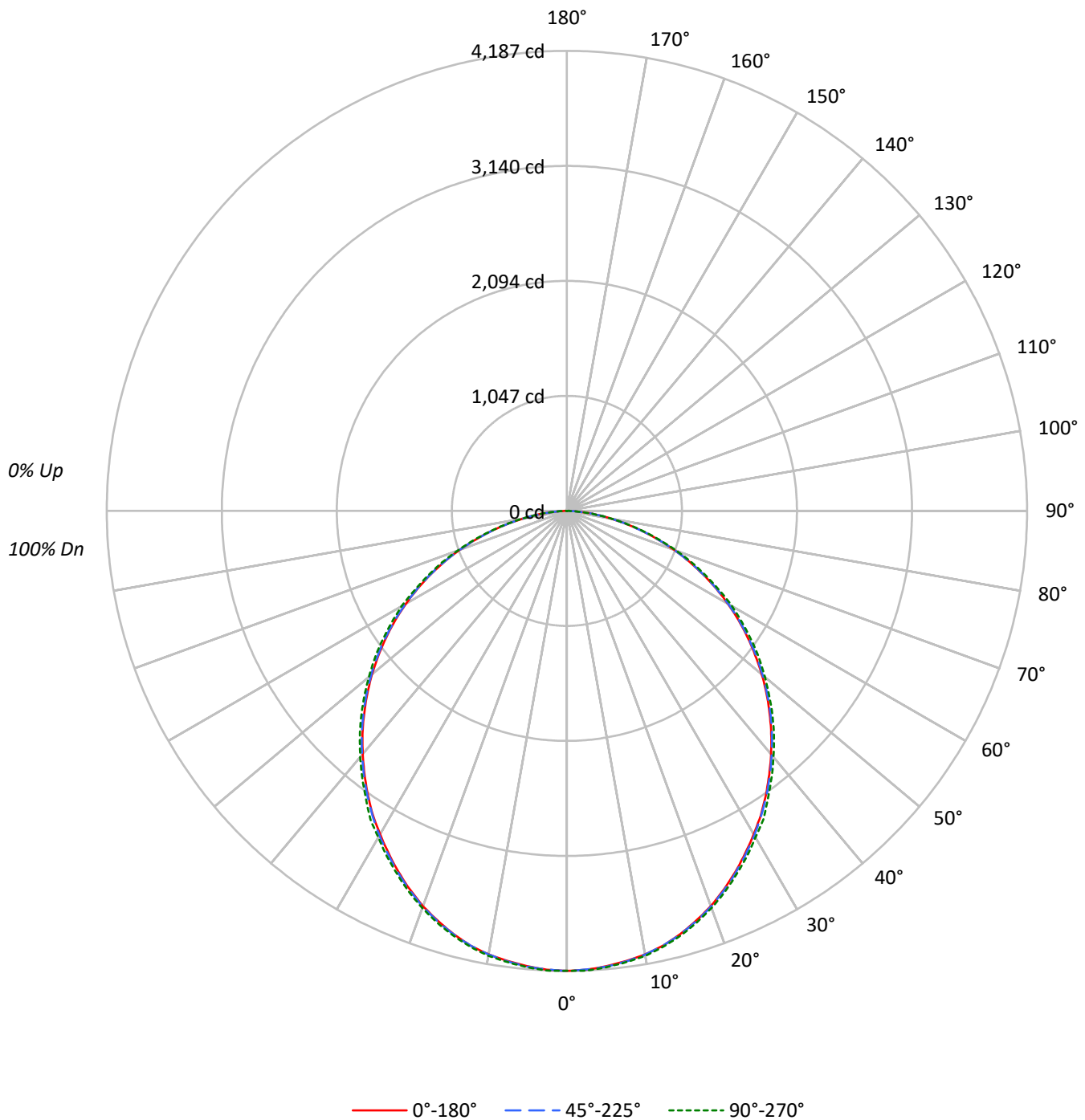
Lumens per Lamp: N/A
Luminaire Lumens: 11312.0 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 132
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	102	102	100
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	86	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	46	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	40	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	36	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	32	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11265	11265	11265
5°	11236	11245	11259
10°	11200	11202	11235
15°	11107	11115	11146
20°	10963	10976	11015
25°	10765	10791	10840
30°	10563	10598	10662
35°	10370	10396	10478
40°	10151	10184	10276
45°	9928	9971	10073
50°	9688	9732	9844
55°	9414	9458	9613
60°	9101	9138	9344
65°	8703	8731	8897
70°	8170	8176	8354
75°	7426	7399	7570
80°	6380	6354	6461
85°	4949	4869	4897

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.6	3.5
10°-20°	1125.3	9.9
20°-30°	1675.2	14.8
30°-40°	1981.1	17.5
40°-50°	2022.4	17.9
50°-60°	1804.9	16.0
60°-70°	1359.4	12.0
70°-80°	758.1	6.7
80°-90°	189.9	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°	3196.1	28.3
0°-40°	5177.2	45.8
0°-60°	9004.5	79.6
0°-90°	11312.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11312.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4186	4186	4186	4186	4186	
5°	4160	4167	4163	4164	4168	395
15°	3987	3991	3990	3993	4001	1124
25°	3626	3630	3634	3644	3651	1670
35°	3157	3153	3164	3177	3190	1974
45°	2609	2608	2620	2633	2647	2013
55°	2006	2004	2016	2030	2049	1794
65°	1367	1362	1371	1383	1397	1352
75°	714	708	712	715	728	757
85°	160	156	158	156	159	192
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4186.3	4186.3	4186.3	4186.3	4186.3
2.5°	4179.4	4186.3	4177.7	4179.4	4187.2
5°	4159.5	4167.3	4162.9	4163.8	4168.1
7.5°	4131.7	4142.1	4136.1	4137.8	4142.1
10°	4098.8	4106.6	4099.7	4104.0	4111.8
12.5°	4052.0	4055.5	4052.0	4053.7	4062.4
15°	3987.0	3991.3	3989.6	3993.1	4000.9
17.5°	3910.7	3915.9	3915.1	3922.0	3928.1
20°	3828.4	3829.2	3832.7	3839.6	3846.6
22.5°	3731.3	3733.9	3737.4	3746.9	3753.8
25°	3625.6	3629.9	3634.2	3643.8	3650.7
27.5°	3513.8	3518.1	3524.2	3534.6	3545.8
30°	3399.3	3399.3	3410.6	3421.0	3431.4
32.5°	3284.1	3279.7	3290.1	3303.1	3328.3
35°	3156.7	3153.2	3164.5	3176.6	3189.6
37.5°	3024.0	3021.4	3034.4	3047.4	3059.6
40°	2889.7	2886.2	2899.2	2912.2	2925.2
42.5°	2751.9	2750.2	2762.3	2775.3	2789.2
45°	2608.9	2608.0	2620.1	2633.1	2647.0
47.5°	2463.3	2461.5	2473.7	2487.5	2499.7
50°	2314.2	2312.5	2324.6	2338.5	2351.5
52.5°	2160.8	2160.8	2172.0	2184.2	2204.1
55°	2006.5	2003.9	2016.0	2029.9	2049.0
57.5°	1850.5	1847.0	1858.3	1872.2	1889.5
60°	1691.0	1687.5	1697.9	1711.8	1736.1
62.5°	1529.8	1524.6	1535.0	1548.0	1562.7
65°	1366.8	1361.6	1371.2	1383.3	1397.2
67.5°	1203.0	1197.0	1206.5	1216.9	1229.9
70°	1038.4	1032.3	1039.2	1049.6	1061.8
72.5°	874.5	868.5	874.5	878.9	893.6
75°	714.2	708.1	711.6	715.1	728.1
77.5°	558.2	552.1	559.0	560.8	568.6
80°	411.7	405.6	410.0	410.8	416.9
82.5°	278.2	273.0	279.1	274.8	280.0
85°	160.3	156.0	157.7	156.0	158.6
87.5°	63.3	59.8	60.7	57.2	57.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)