

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: P835671

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-5HI-40-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835671
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-LD4-5HI-40-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

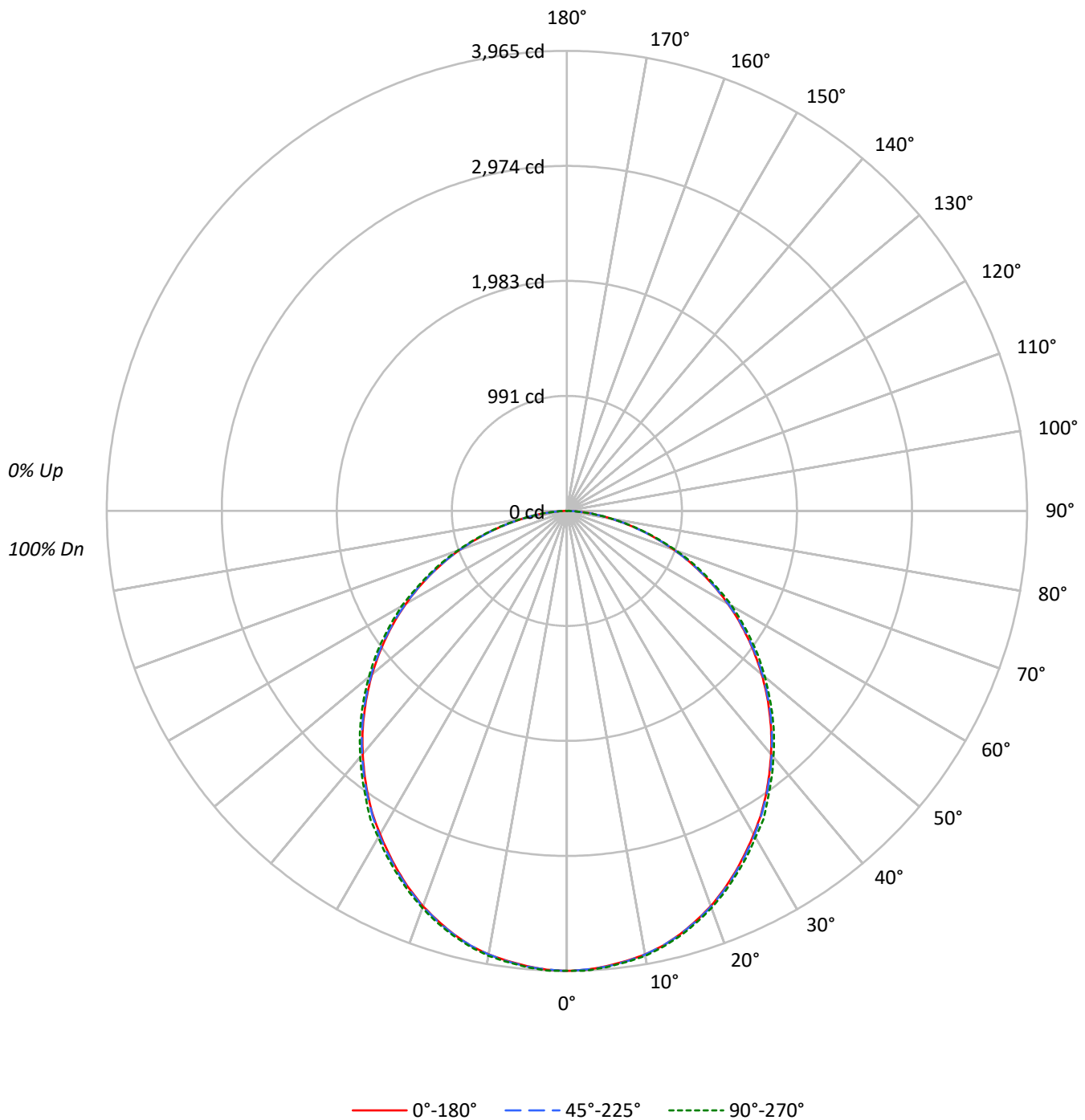
Lumens per Lamp: N/A
Luminaire Lumens: 10711.7 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 110
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

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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°	10668	10668	10668
5°	10640	10648	10662
10°	10606	10608	10639
15°	10518	10525	10555
20°	10381	10393	10431
25°	10194	10218	10264
30°	10002	10035	10096
35°	9820	9844	9922
40°	9612	9644	9731
45°	9401	9442	9539
50°	9174	9215	9322
55°	8914	8957	9103
60°	8618	8653	8848
65°	8241	8267	8424
70°	7737	7743	7910
75°	7032	7006	7168
80°	6042	6016	6118
85°	4687	4613	4638

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.6	3.5
10°-20°	1065.6	9.9
20°-30°	1586.3	14.8
30°-40°	1876.0	17.5
40°-50°	1915.1	17.9
50°-60°	1709.1	16.0
60°-70°	1287.3	12.0
70°-80°	717.9	6.7
80°-90°	179.9	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°	3026.5	28.3
0°-40°	4902.5	45.8
0°-60°	8526.7	79.6
0°-90°	10711.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10711.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3964	3964	3964	3964	3964	
5°	3939	3946	3942	3943	3947	374
15°	3775	3780	3778	3781	3789	1064
25°	3433	3437	3441	3450	3457	1582
35°	2989	2986	2996	3008	3020	1869
45°	2470	2470	2481	2493	2507	1906
55°	1900	1898	1909	1922	1940	1698
65°	1294	1289	1298	1310	1323	1280
75°	676	671	674	677	689	717
85°	152	148	149	148	150	182
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3964.2	3964.2	3964.2	3964.2	3964.2
2.5°	3957.6	3964.2	3956.0	3957.6	3965.0
5°	3938.8	3946.2	3942.0	3942.9	3947.0
7.5°	3912.5	3922.3	3916.6	3918.2	3922.3
10°	3881.3	3888.7	3882.1	3886.2	3893.6
12.5°	3837.0	3840.3	3837.0	3838.6	3846.8
15°	3775.4	3779.5	3777.9	3781.2	3788.6
17.5°	3703.2	3708.1	3707.3	3713.9	3719.6
20°	3625.2	3626.1	3629.3	3635.9	3642.5
22.5°	3533.3	3535.8	3539.1	3548.1	3554.7
25°	3433.2	3437.3	3441.4	3450.4	3457.0
27.5°	3327.3	3331.4	3337.2	3347.0	3357.7
30°	3219.0	3219.0	3229.6	3239.5	3249.3
32.5°	3109.8	3105.7	3115.6	3127.9	3151.7
35°	2989.2	2985.9	2996.5	3008.0	3020.3
37.5°	2863.6	2861.1	2873.4	2885.7	2897.2
40°	2736.4	2733.1	2745.4	2757.7	2770.0
42.5°	2605.9	2604.2	2615.7	2628.0	2641.2
45°	2470.4	2469.6	2481.1	2493.4	2506.6
47.5°	2332.6	2330.9	2342.4	2355.5	2367.0
50°	2191.4	2189.8	2201.2	2214.4	2226.7
52.5°	2046.1	2046.1	2056.8	2068.3	2087.2
55°	1900.0	1897.6	1909.1	1922.2	1940.2
57.5°	1752.3	1749.0	1759.7	1772.8	1789.2
60°	1601.3	1598.0	1607.8	1621.0	1644.0
62.5°	1448.6	1443.7	1453.5	1465.9	1479.8
65°	1294.3	1289.4	1298.4	1309.9	1323.0
67.5°	1139.2	1133.5	1142.5	1152.3	1164.6
70°	983.3	977.5	984.1	993.9	1005.4
72.5°	828.1	822.4	828.1	832.2	846.2
75°	676.3	670.6	673.8	677.1	689.4
77.5°	528.6	522.8	529.4	531.0	538.4
80°	389.9	384.1	388.2	389.0	394.8
82.5°	263.5	258.5	264.3	260.2	265.1
85°	151.8	147.7	149.4	147.7	150.2
87.5°	59.9	56.6	57.5	54.2	54.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)