

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: P485996

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-5HI-50-120-EDD-90**

Issue Date: 3/1/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P485996
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35355)
Test Lab: INNOVATION CENTER
Issue Date: 3/1/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-2-INS-A125-LD4-5HI-50-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

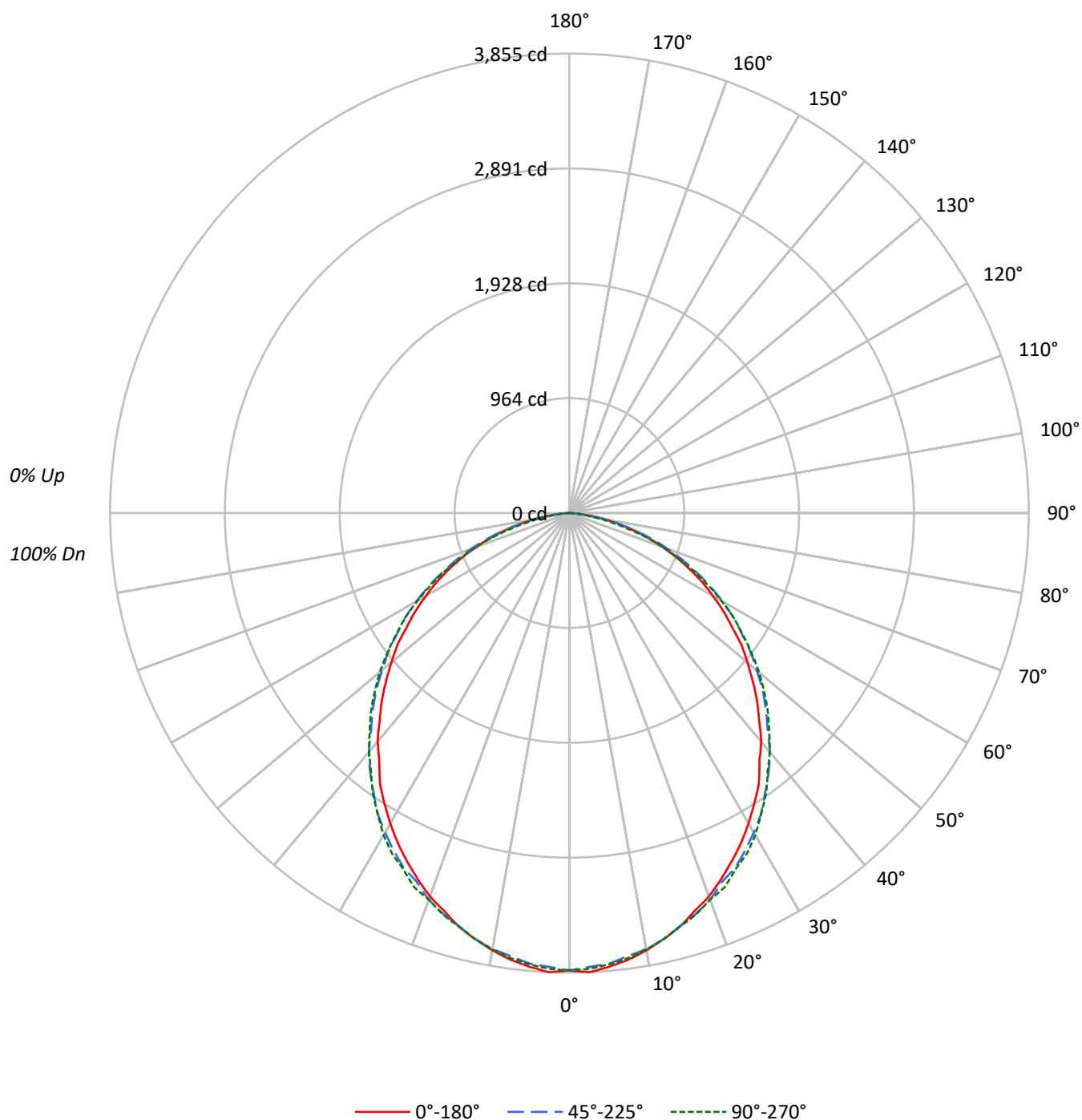
Lumens per Lamp: N/A
Luminaire Lumens: 9853.9 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 110
Input Voltage (V): NR
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: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	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
1	109	105	101	97	107	102	99	95		98	95	92		94	92	90		91	89	87
2	100	92	85	79	97	90	84	79		86	81	77		83	79	75		80	76	73
3	91	81	73	66	89	79	72	66		76	70	65		73	68	64		71	66	62
4	83	72	63	57	81	70	62	56		68	61	55		66	59	55		63	58	54
5	77	64	55	49	75	63	55	49		61	54	48		59	53	48		57	52	47
6	71	58	49	43	69	57	49	43		55	48	42		53	47	42		52	46	41
7	66	53	44	38	64	52	44	38		50	43	37		49	42	37		47	41	37
8	61	48	40	34	60	47	39	34		46	39	34		45	38	33		44	38	33
9	57	44	36	31	56	44	36	30		42	35	30		41	35	30		40	34	30
10	54	41	33	28	53	40	33	28		39	32	28		38	32	27		37	32	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10323	10323	10323
5°	10323	10250	10267
10°	10179	10145	10156
15°	10004	9992	9998
20°	9803	9887	9881
25°	9572	9759	9790
30°	9340	9613	9692
35°	9109	9406	9447
40°	8798	9196	9188
45°	8477	8876	8964
50°	8158	8579	8693
55°	7813	8276	8325
60°	7484	7981	7925
65°	7092	7493	7345
70°	6535	6882	6568
75°	5779	6019	5256
80°	4647	4713	3673
85°	3044	2915	2137



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.6	3.7
10°-20°	1013.9	10.3
20°-30°	1509.6	15.3
30°-40°	1776.8	18.0
40°-50°	1781.5	18.1
50°-60°	1562.2	15.9
60°-70°	1142.3	11.6
70°-80°	588.7	6.0
80°-90°	118.1	1.2
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°	2884.1	29.3
0°-40°	4660.9	47.3
0°-60°	8004.7	81.2
0°-90°	9853.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9853.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3836	3836	3836	3836	3836	
5°	3822	3796	3794	3820	3801	362
15°	3591	3597	3587	3610	3589	1011
25°	3224	3239	3287	3333	3297	1485
35°	2773	2786	2863	2895	2876	1727
45°	2228	2238	2332	2362	2356	1717
55°	1665	1703	1764	1789	1774	1495
65°	1114	1139	1177	1172	1154	1102
75°	556	560	579	539	506	589
85°	99	96	94	76	69	129
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3836.3	3836.3	3836.3	3836.3	3836.3
2.5°	3855.2	3836.3	3811.2	3832.1	3828.0
5°	3821.7	3796.5	3794.4	3819.6	3800.7
7.5°	3779.7	3775.5	3750.3	3777.6	3767.1
10°	3725.2	3721.0	3712.6	3731.5	3716.8
12.5°	3660.2	3656.0	3660.2	3670.6	3660.2
15°	3590.9	3597.2	3586.7	3609.8	3588.8
17.5°	3498.6	3504.9	3525.9	3534.3	3532.2
20°	3423.1	3427.3	3452.5	3486.1	3450.4
22.5°	3324.6	3335.0	3347.6	3408.5	3400.1
25°	3223.9	3238.6	3286.8	3332.9	3297.3
27.5°	3119.0	3133.7	3192.4	3226.0	3221.8
30°	3005.7	3020.4	3093.8	3140.0	3119.0
32.5°	2888.3	2913.4	2993.1	3033.0	2993.1
35°	2772.9	2785.5	2863.1	2894.6	2875.7
37.5°	2619.8	2668.0	2745.6	2766.6	2733.1
40°	2504.4	2506.5	2617.7	2617.7	2615.6
42.5°	2355.5	2389.1	2462.5	2502.3	2481.4
45°	2227.6	2238.0	2332.4	2361.8	2355.5
47.5°	2087.0	2129.0	2198.2	2231.7	2215.0
50°	1948.6	1978.0	2049.3	2093.3	2076.5
52.5°	1820.6	1843.7	1917.1	1942.3	1925.5
55°	1665.4	1703.2	1764.0	1789.2	1774.5
57.5°	1531.2	1558.4	1634.0	1642.3	1634.0
60°	1390.6	1422.1	1482.9	1489.2	1472.5
62.5°	1256.4	1277.4	1331.9	1334.0	1315.1
65°	1113.8	1138.9	1176.7	1172.5	1153.6
67.5°	973.2	990.0	1025.7	1011.0	990.0
70°	830.6	845.3	874.7	853.7	834.8
72.5°	692.2	702.7	727.8	696.4	673.3
75°	555.8	560.0	578.9	539.1	505.5
77.5°	421.6	425.8	436.3	396.4	358.7
80°	299.9	299.9	304.1	262.2	237.0
82.5°	188.8	188.8	186.7	155.2	140.5
85°	98.6	96.5	94.4	75.5	69.2
87.5°	35.7	35.7	29.4	27.3	29.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)