

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: P487209

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-2STD-50-120-EDD**

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: P487209
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-24-4-INS-A125-LD4-2STD-50-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

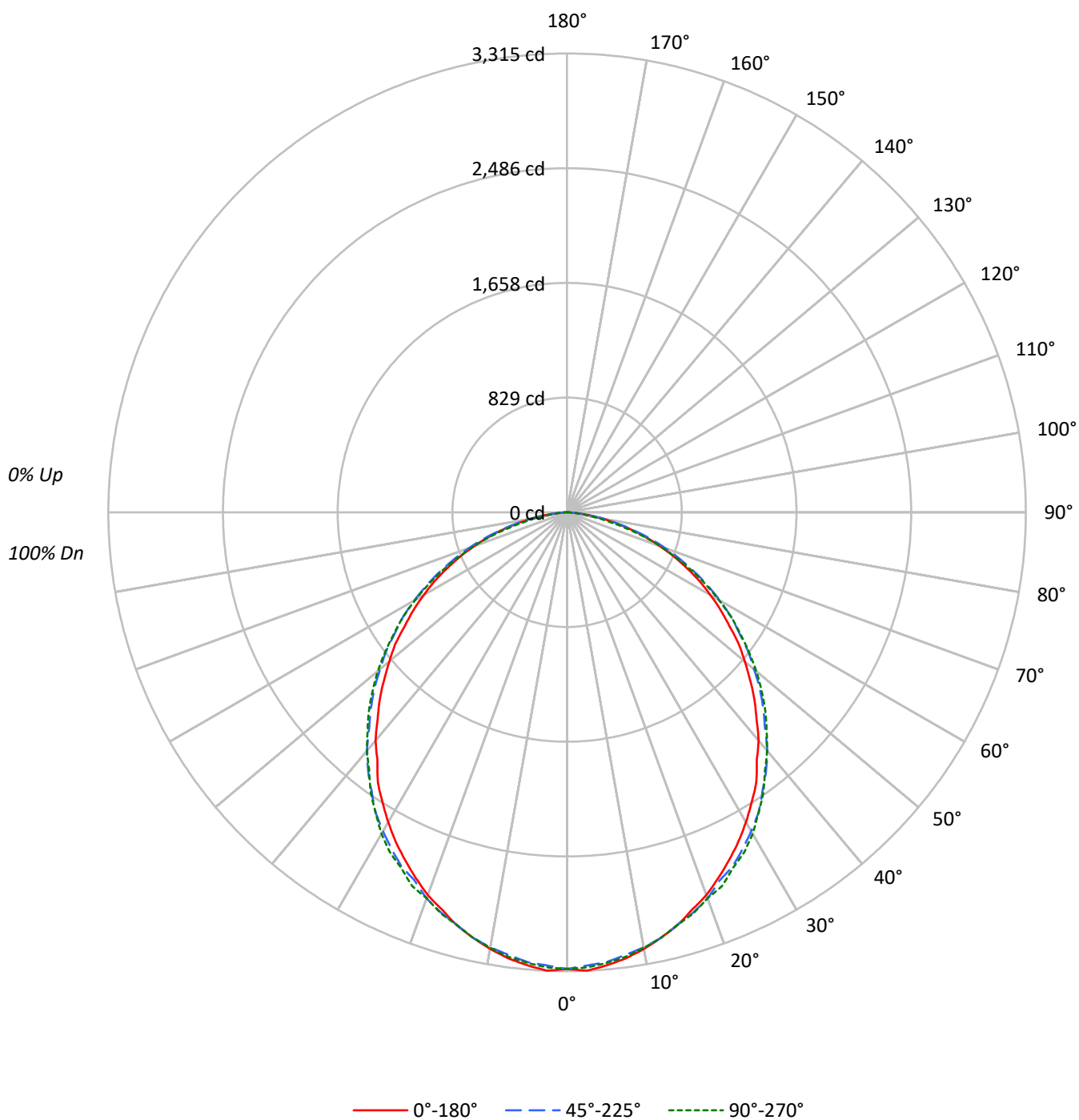
Lumens per Lamp: N/A
Luminaire Lumens: 8472.2 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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			0
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			100
1	109	105	101	97	107	102	99	95		98	95	92			94	92	90			85
2	100	92	85	79	97	90	84	79		86	81	77			83	79	75			71
3	91	81	73	66	89	79	72	66		76	70	65			73	68	64			60
4	83	72	63	57	81	70	62	56		68	61	55			66	59	55			52
5	77	64	55	49	75	63	55	49		61	54	48			59	53	48			45
6	71	58	49	43	69	57	49	43		55	48	42			53	47	42			39
7	66	53	44	38	64	52	44	38		50	43	37			49	42	37			35
8	61	48	40	34	60	47	39	34		46	39	34			45	38	33			31
9	57	44	36	31	56	44	36	30		42	35	30			41	35	30			28
10	54	41	33	28	53	40	33	28		39	32	28			38	32	27			26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4438	4438	4438
5°	4438	4406	4414
10°	4376	4361	4366
15°	4301	4296	4298
20°	4214	4250	4248
25°	4115	4195	4209
30°	4015	4133	4166
35°	3916	4043	4061
40°	3782	3953	3950
45°	3644	3816	3854
50°	3507	3688	3737
55°	3359	3558	3579
60°	3218	3431	3407
65°	3049	3221	3158
70°	2809	2958	2824
75°	2484	2587	2259
80°	1998	2026	1579
85°	1309	1254	919



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.0	3.7
10°-20°	871.8	10.3
20°-30°	1297.9	15.3
30°-40°	1527.7	18.0
40°-50°	1531.7	18.1
50°-60°	1343.2	15.9
60°-70°	982.2	11.6
70°-80°	506.2	6.0
80°-90°	101.6	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°	2479.7	29.3
0°-40°	4007.4	47.3
0°-60°	6882.3	81.2
0°-90°	8472.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8472.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3298	3298	3298	3298	3298	
5°	3286	3264	3262	3284	3268	311
15°	3087	3093	3084	3104	3086	869
25°	2772	2784	2826	2866	2835	1277
35°	2384	2395	2462	2489	2472	1485
45°	1915	1924	2005	2031	2025	1476
55°	1432	1464	1517	1538	1526	1285
65°	958	979	1012	1008	992	947
75°	478	482	498	464	435	506
85°	85	83	81	65	60	111
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3298.4	3298.4	3298.4	3298.4	3298.4
2.5°	3314.6	3298.4	3276.8	3294.8	3291.2
5°	3285.8	3264.2	3262.3	3284.0	3267.8
7.5°	3249.7	3246.1	3224.5	3247.9	3238.9
10°	3202.8	3199.2	3192.0	3208.2	3195.6
12.5°	3146.9	3143.3	3146.9	3155.9	3146.9
15°	3087.4	3092.8	3083.8	3103.7	3085.6
17.5°	3008.1	3013.5	3031.5	3038.7	3036.9
20°	2943.1	2946.8	2968.4	2997.2	2966.6
22.5°	2858.4	2867.4	2878.2	2930.5	2923.3
25°	2771.8	2784.4	2825.9	2865.6	2834.9
27.5°	2681.7	2694.3	2744.8	2773.6	2770.0
30°	2584.3	2596.9	2660.0	2699.7	2681.7
32.5°	2483.3	2504.9	2573.5	2607.7	2573.5
35°	2384.1	2394.9	2461.6	2488.7	2472.5
37.5°	2252.4	2293.9	2360.6	2378.7	2349.8
40°	2153.3	2155.1	2250.6	2250.6	2248.8
42.5°	2025.2	2054.1	2117.2	2151.5	2133.4
45°	1915.2	1924.2	2005.4	2030.6	2025.2
47.5°	1794.4	1830.5	1890.0	1918.8	1904.4
50°	1675.4	1700.6	1761.9	1799.8	1785.4
52.5°	1565.4	1585.2	1648.3	1669.9	1655.5
55°	1431.9	1464.4	1516.7	1538.3	1525.7
57.5°	1316.5	1339.9	1404.8	1412.1	1404.8
60°	1195.7	1222.7	1275.0	1280.4	1266.0
62.5°	1080.2	1098.3	1145.2	1147.0	1130.7
65°	957.6	979.2	1011.7	1008.1	991.9
67.5°	836.8	851.2	881.9	869.2	851.2
70°	714.1	726.8	752.0	734.0	717.8
72.5°	595.1	604.1	625.8	598.7	578.9
75°	477.9	481.5	497.7	463.5	434.6
77.5°	362.5	366.1	375.1	340.8	308.4
80°	257.9	257.9	261.5	225.4	203.8
82.5°	162.3	162.3	160.5	133.5	120.8
85°	84.8	83.0	81.2	64.9	59.5
87.5°	30.7	30.7	25.2	23.4	25.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)