

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: P487180

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-2HI-35-120-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: P487180
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-LD4-2HI-35-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

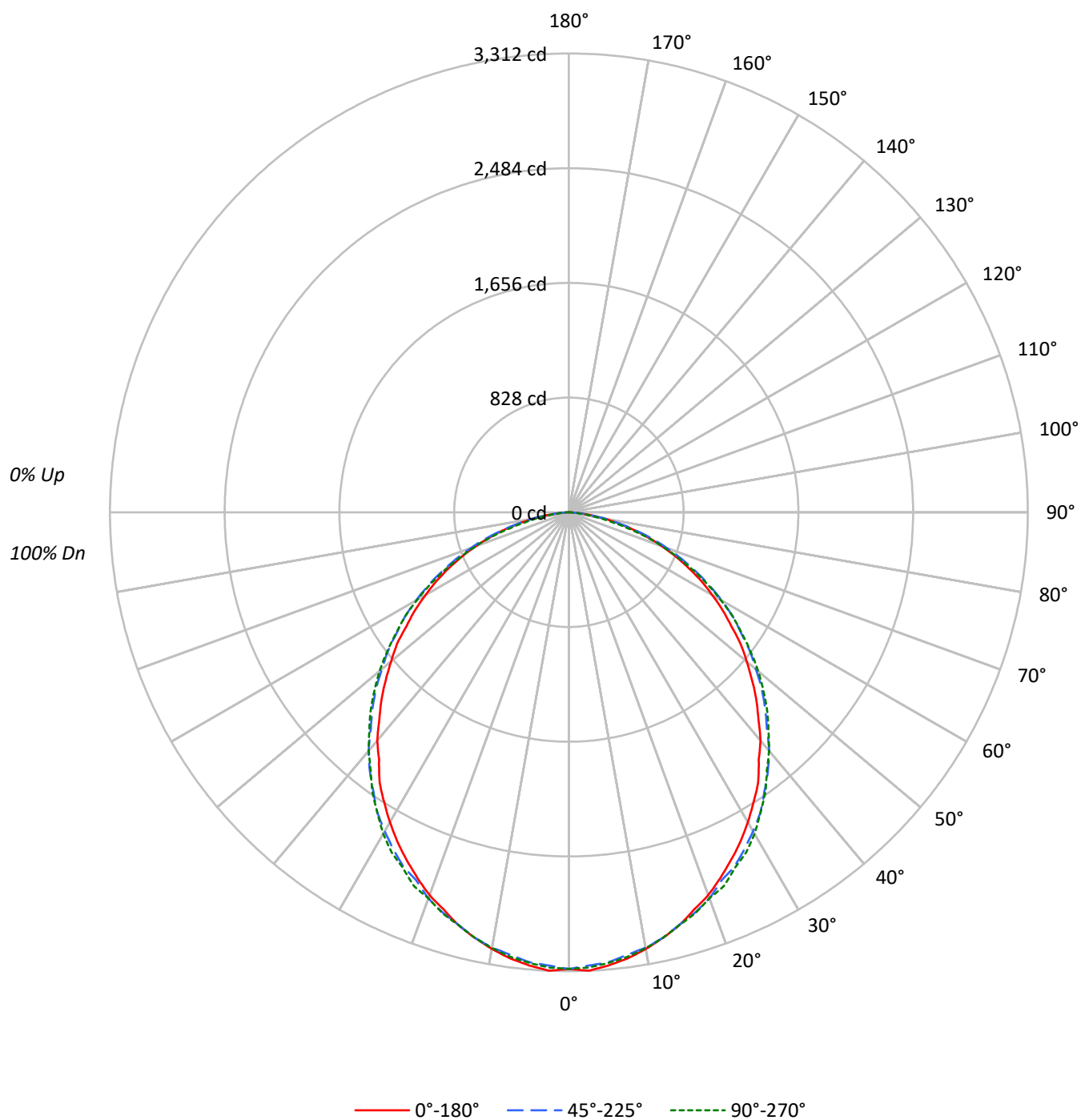
Lumens per Lamp: N/A
Luminaire Lumens: 8465.6 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 88
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°	4434	4434	4434
5°	4434	4403	4410
10°	4372	4358	4363
15°	4297	4292	4295
20°	4211	4247	4244
25°	4112	4192	4205
30°	4012	4129	4163
35°	3913	4040	4058
40°	3779	3950	3947
45°	3641	3813	3851
50°	3504	3685	3734
55°	3356	3555	3576
60°	3215	3428	3404
65°	3046	3218	3155
70°	2807	2956	2821
75°	2482	2586	2258
80°	1997	2025	1578
85°	1308	1252	919



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.8	3.7
10°-20°	871.1	10.3
20°-30°	1296.9	15.3
30°-40°	1526.5	18.0
40°-50°	1530.5	18.1
50°-60°	1342.1	15.9
60°-70°	981.4	11.6
70°-80°	505.8	6.0
80°-90°	101.5	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°	2477.8	29.3
0°-40°	4004.3	47.3
0°-60°	6876.9	81.2
0°-90°	8465.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8465.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3296	3296	3296	3296	3296	
5°	3283	3262	3260	3281	3265	311
15°	3085	3090	3081	3101	3083	868
25°	2770	2782	2824	2863	2833	1276
35°	2382	2393	2460	2487	2470	1484
45°	1914	1923	2004	2029	2024	1475
55°	1431	1463	1516	1537	1524	1284
65°	957	978	1011	1007	991	947
75°	478	481	497	463	434	506
85°	85	83	81	65	60	110
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3295.8	3295.8	3295.8	3295.8	3295.8
2.5°	3312.1	3295.8	3274.2	3292.2	3288.6
5°	3283.2	3261.6	3259.8	3281.4	3265.2
7.5°	3247.2	3243.6	3222.0	3245.4	3236.4
10°	3200.3	3196.7	3189.5	3205.7	3193.1
12.5°	3144.5	3140.9	3144.5	3153.5	3144.5
15°	3085.0	3090.4	3081.4	3101.2	3083.2
17.5°	3005.7	3011.1	3029.2	3036.4	3034.6
20°	2940.9	2944.5	2966.1	2994.9	2964.3
22.5°	2856.2	2865.2	2876.0	2928.2	2921.0
25°	2769.7	2782.3	2823.7	2863.4	2832.7
27.5°	2679.6	2692.2	2742.6	2771.5	2767.9
30°	2582.3	2594.9	2657.9	2697.6	2679.6
32.5°	2481.3	2503.0	2571.4	2605.7	2571.4
35°	2382.2	2393.0	2459.7	2486.8	2470.5
37.5°	2250.7	2292.1	2358.8	2376.8	2348.0
40°	2151.6	2153.4	2248.9	2248.9	2247.1
42.5°	2023.6	2052.5	2115.5	2149.8	2131.8
45°	1913.7	1922.7	2003.8	2029.0	2023.6
47.5°	1793.0	1829.0	1888.5	1917.3	1902.9
50°	1674.1	1699.3	1760.5	1798.4	1784.0
52.5°	1564.1	1584.0	1647.0	1668.6	1654.2
55°	1430.8	1463.2	1515.5	1537.1	1524.5
57.5°	1315.5	1338.9	1403.8	1411.0	1403.8
60°	1194.7	1221.8	1274.0	1279.4	1265.0
62.5°	1079.4	1097.4	1144.3	1146.1	1129.9
65°	956.9	978.5	1010.9	1007.3	991.1
67.5°	836.1	850.5	881.2	868.6	850.5
70°	713.6	726.2	751.4	733.4	717.2
72.5°	594.7	603.7	625.3	598.3	578.4
75°	477.5	481.1	497.4	463.1	434.3
77.5°	362.2	365.8	374.8	340.6	308.1
80°	257.7	257.7	261.3	225.2	203.6
82.5°	162.2	162.2	160.4	133.3	120.7
85°	84.7	82.9	81.1	64.9	59.5
87.5°	30.6	30.6	25.2	23.4	25.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)