

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: P486020

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-5STD-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: P486020
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-LD4-5STD-50-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

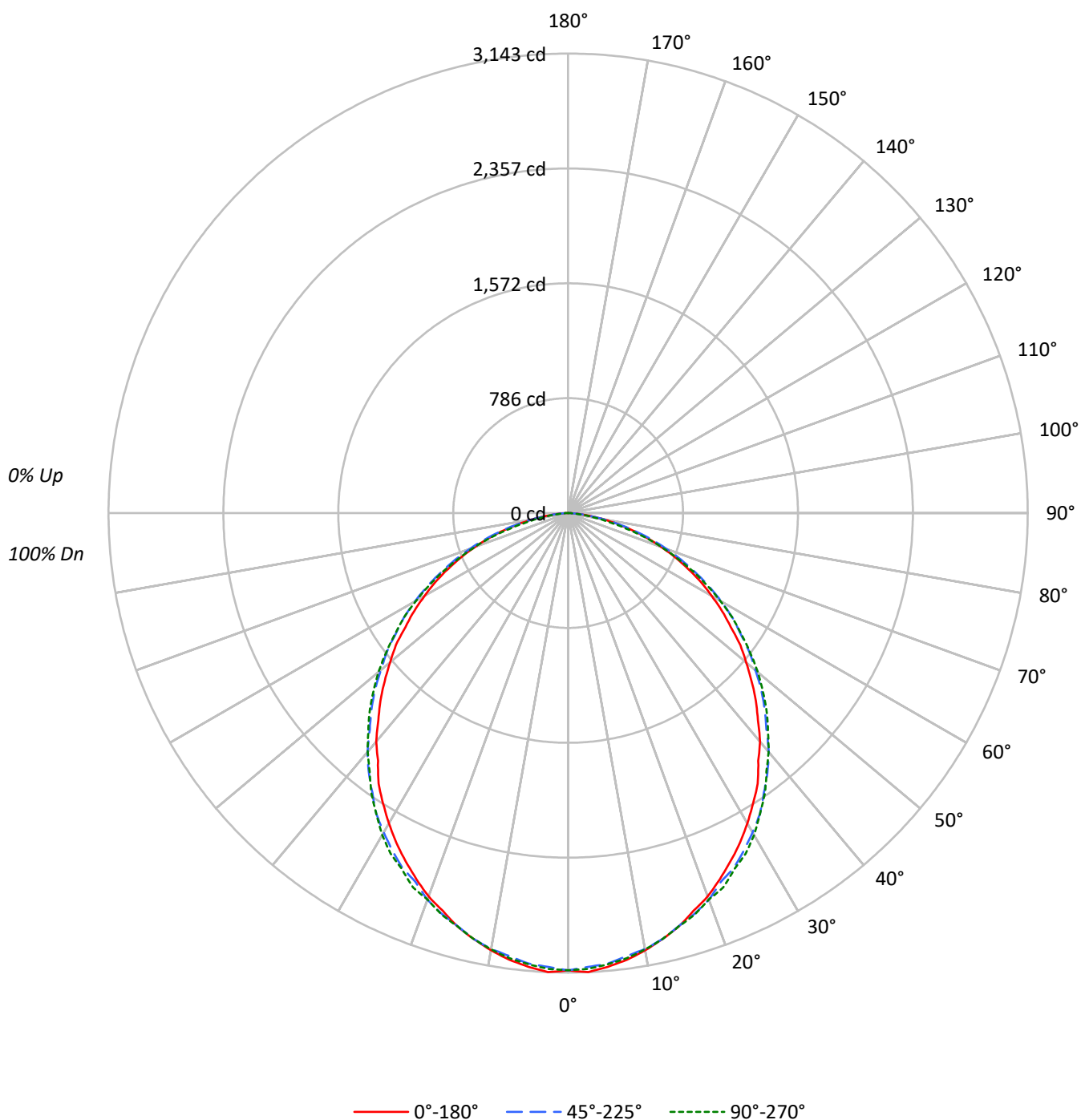
Lumens per Lamp: N/A
Luminaire Lumens: 8033.7 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 83.2
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°	8417	8417	8417
5°	8416	8356	8370
10°	8299	8271	8280
15°	8156	8147	8151
20°	7992	8061	8056
25°	7804	7956	7982
30°	7614	7837	7901
35°	7427	7668	7702
40°	7172	7497	7491
45°	6911	7237	7308
50°	6651	6994	7088
55°	6370	6747	6787
60°	6102	6507	6461
65°	5782	6108	5989
70°	5328	5611	5355
75°	4712	4907	4285
80°	3789	3843	2994
85°	2482	2377	1741



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.0	3.7
10°-20°	826.6	10.3
20°-30°	1230.7	15.3
30°-40°	1448.6	18.0
40°-50°	1452.4	18.1
50°-60°	1273.7	15.9
60°-70°	931.3	11.6
70°-80°	480.0	6.0
80°-90°	96.3	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°	2351.4	29.3
0°-40°	3800.0	47.3
0°-60°	6526.1	81.2
0°-90°	8033.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8033.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3128	3128	3128	3128	3128	
5°	3116	3095	3094	3114	3099	295
15°	2928	2933	2924	2943	2926	824
25°	2628	2640	2680	2717	2688	1211
35°	2261	2271	2334	2360	2344	1408
45°	1816	1825	1902	1926	1920	1400
55°	1358	1389	1438	1459	1447	1219
65°	908	929	959	956	940	898
75°	453	457	472	440	412	480
85°	80	79	77	62	56	105
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3127.7	3127.7	3127.7	3127.7	3127.7
2.5°	3143.1	3127.7	3107.2	3124.3	3120.9
5°	3115.7	3095.2	3093.5	3114.0	3098.6
7.5°	3081.5	3078.1	3057.6	3079.8	3071.3
10°	3037.1	3033.6	3026.8	3042.2	3030.2
12.5°	2984.1	2980.6	2984.1	2992.6	2984.1
15°	2927.6	2932.8	2924.2	2943.0	2925.9
17.5°	2852.4	2857.5	2874.6	2881.5	2879.7
20°	2790.8	2794.2	2814.8	2842.1	2813.0
22.5°	2710.4	2719.0	2729.3	2778.8	2772.0
25°	2628.4	2640.3	2679.7	2717.3	2688.2
27.5°	2542.9	2554.8	2602.7	2630.1	2626.7
30°	2450.5	2462.5	2522.3	2560.0	2542.9
32.5°	2354.8	2375.3	2440.3	2472.7	2440.3
35°	2260.7	2271.0	2334.2	2359.9	2344.5
37.5°	2135.9	2175.2	2238.5	2255.6	2228.2
40°	2041.8	2043.5	2134.2	2134.2	2132.4
42.5°	1920.4	1947.8	2007.6	2040.1	2023.0
45°	1816.1	1824.6	1901.6	1925.5	1920.4
47.5°	1701.5	1735.7	1792.1	1819.5	1805.8
50°	1588.6	1612.6	1670.7	1706.6	1693.0
52.5°	1484.3	1503.1	1563.0	1583.5	1569.8
55°	1357.8	1388.6	1438.2	1458.7	1446.7
57.5°	1248.3	1270.6	1332.1	1339.0	1332.1
60°	1133.8	1159.4	1209.0	1214.1	1200.5
62.5°	1024.3	1041.4	1085.9	1087.6	1072.2
65°	908.0	928.6	959.3	955.9	940.5
67.5°	793.5	807.1	836.2	824.2	807.1
70°	677.2	689.2	713.1	696.0	680.6
72.5°	564.3	572.9	593.4	567.7	548.9
75°	453.2	456.6	472.0	439.5	412.1
77.5°	343.7	347.1	355.7	323.2	292.4
80°	244.5	244.5	248.0	213.8	193.2
82.5°	153.9	153.9	152.2	126.5	114.6
85°	80.4	78.7	77.0	61.6	56.4
87.5°	29.1	29.1	23.9	22.2	23.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)