

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: P485987

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-5HI-20-120-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: P485987
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-20-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

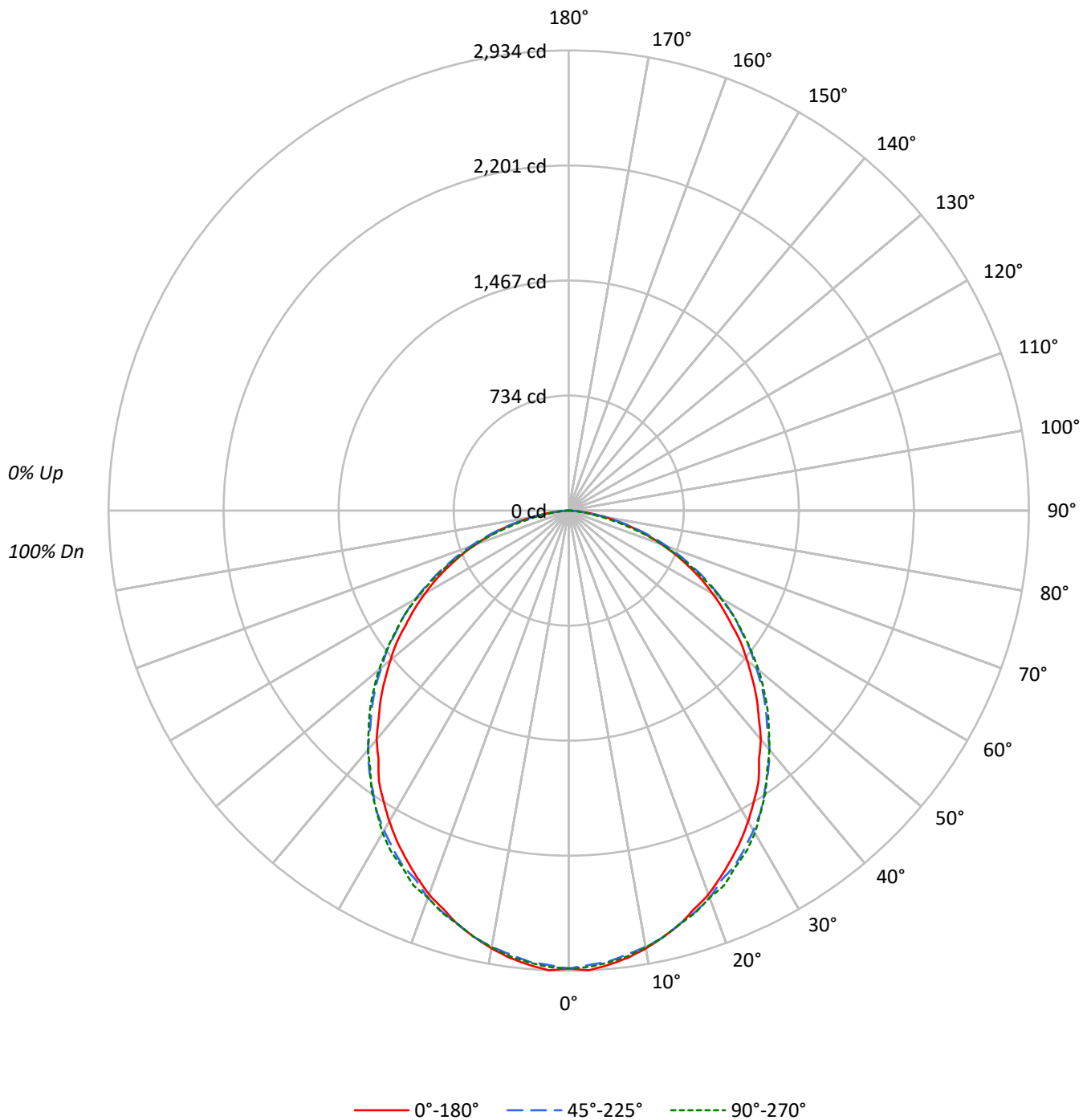
Lumens per Lamp: N/A
Luminaire Lumens: 7498.4 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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					10
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°	7856	7856	7856
5°	7856	7800	7813
10°	7746	7720	7728
15°	7612	7604	7608
20°	7460	7523	7519
25°	7284	7426	7450
30°	7107	7315	7375
35°	6932	7157	7189
40°	6695	6998	6992
45°	6451	6755	6821
50°	6208	6528	6615
55°	5946	6298	6335
60°	5695	6074	6030
65°	5396	5701	5590
70°	4973	5237	4998
75°	4398	4580	4000
80°	3536	3586	2796
85°	2316	2217	1627



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.4	3.7
10°-20°	771.6	10.3
20°-30°	1148.7	15.3
30°-40°	1352.1	18.0
40°-50°	1355.7	18.1
50°-60°	1188.8	15.9
60°-70°	869.3	11.6
70°-80°	448.0	6.0
80°-90°	89.9	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°	2194.7	29.3
0°-40°	3546.8	47.3
0°-60°	6091.2	81.2
0°-90°	7498.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7498.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2919	2919	2919	2919	2919	
5°	2908	2889	2887	2906	2892	275
15°	2732	2737	2729	2747	2731	769
25°	2453	2464	2501	2536	2509	1130
35°	2110	2120	2179	2203	2188	1314
45°	1695	1703	1775	1797	1792	1306
55°	1267	1296	1342	1362	1350	1138
65°	848	867	895	892	878	838
75°	423	426	440	410	385	448
85°	75	73	72	58	53	98
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2919.3	2919.3	2919.3	2919.3	2919.3
2.5°	2933.7	2919.3	2900.1	2916.1	2912.9
5°	2908.1	2889.0	2887.4	2906.5	2892.2
7.5°	2876.2	2873.0	2853.9	2874.6	2866.6
10°	2834.7	2831.5	2825.1	2839.5	2828.3
12.5°	2785.2	2782.0	2785.2	2793.2	2785.2
15°	2732.5	2737.3	2729.4	2746.9	2731.0
17.5°	2662.3	2667.1	2683.1	2689.5	2687.9
20°	2604.9	2608.1	2627.2	2652.7	2625.6
22.5°	2529.8	2537.8	2547.4	2593.7	2587.3
25°	2453.2	2464.4	2501.1	2536.2	2509.1
27.5°	2373.4	2384.6	2429.3	2454.8	2451.6
30°	2287.2	2298.4	2354.3	2389.4	2373.4
32.5°	2197.9	2217.0	2277.7	2308.0	2277.7
35°	2110.1	2119.6	2178.7	2202.6	2188.3
37.5°	1993.5	2030.3	2089.3	2105.3	2079.7
40°	1905.8	1907.4	1992.0	1992.0	1990.4
42.5°	1792.4	1818.0	1873.8	1904.2	1888.2
45°	1695.1	1703.1	1774.9	1797.2	1792.4
47.5°	1588.1	1620.1	1672.7	1698.3	1685.5
50°	1482.8	1505.1	1559.4	1592.9	1580.2
52.5°	1385.4	1403.0	1458.8	1478.0	1465.2
55°	1267.3	1296.0	1342.3	1361.5	1350.3
57.5°	1165.2	1185.9	1243.4	1249.8	1243.4
60°	1058.2	1082.2	1128.5	1133.2	1120.5
62.5°	956.1	972.0	1013.5	1015.1	1000.8
65°	847.5	866.7	895.4	892.2	877.9
67.5°	740.6	753.4	780.5	769.3	753.4
70°	632.1	643.2	665.6	649.6	635.3
72.5°	526.7	534.7	553.9	529.9	512.4
75°	423.0	426.2	440.5	410.2	384.7
77.5°	320.8	324.0	332.0	301.7	272.9
80°	228.2	228.2	231.4	199.5	180.4
82.5°	143.7	143.7	142.1	118.1	106.9
85°	75.0	73.4	71.8	57.5	52.7
87.5°	27.1	27.1	22.3	20.7	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)