

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: P485954

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-4HI-30-120-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: P485954
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-LD4-4HI-30-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

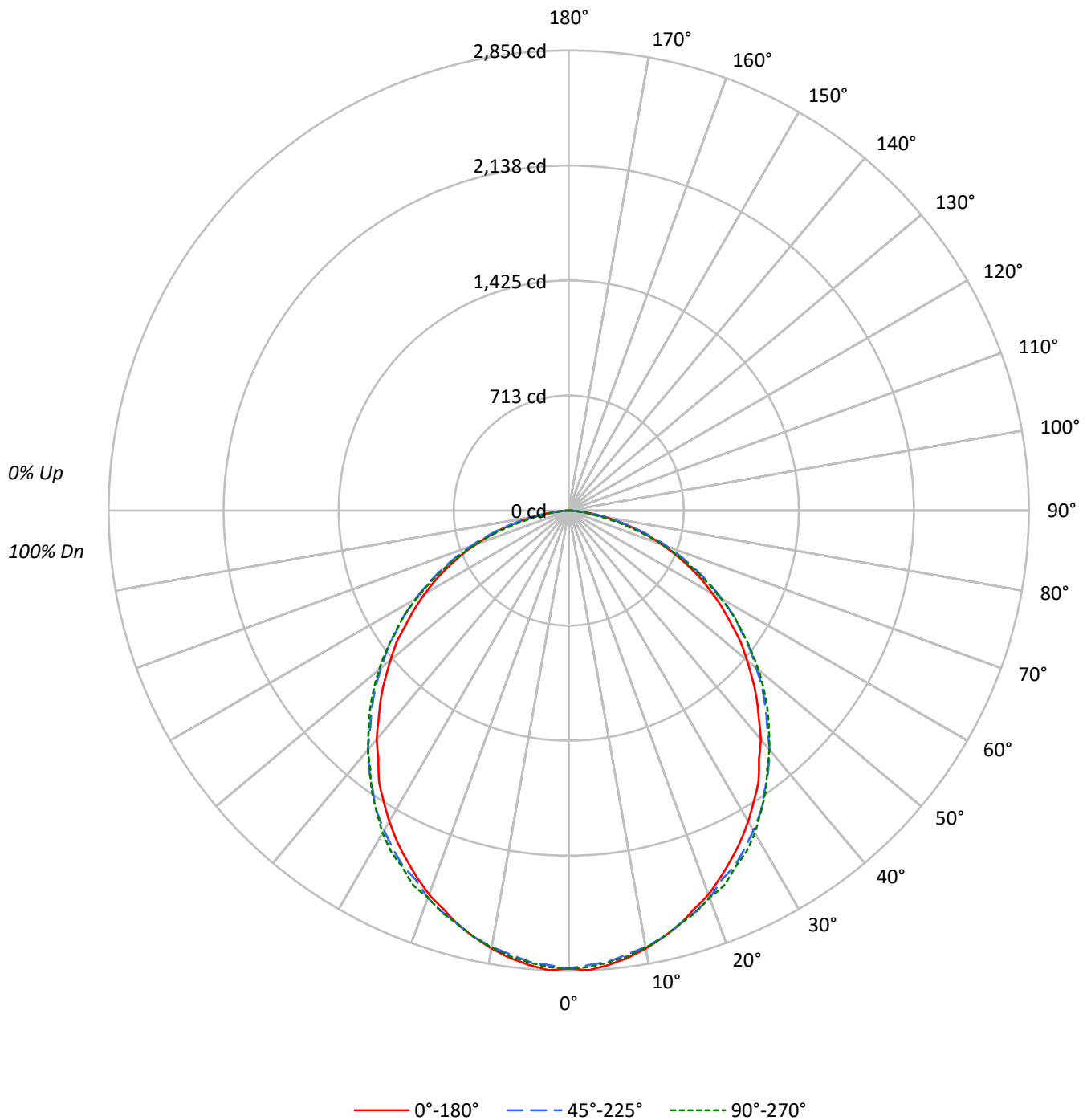
Lumens per Lamp: N/A
Luminaire Lumens: 7284.2 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	7631	7631	7631
5°	7631	7577	7589
10°	7524	7499	7508
15°	7395	7387	7391
20°	7246	7309	7304
25°	7076	7214	7237
30°	6904	7106	7164
35°	6734	6953	6983
40°	6503	6797	6792
45°	6267	6562	6626
50°	6030	6342	6426
55°	5776	6118	6154
60°	5533	5900	5858
65°	5242	5538	5430
70°	4831	5087	4855
75°	4272	4449	3885
80°	3436	3484	2715
85°	2251	2155	1581



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.6	3.7
10°-20°	749.5	10.3
20°-30°	1115.9	15.3
30°-40°	1313.5	18.0
40°-50°	1316.9	18.1
50°-60°	1154.8	15.9
60°-70°	844.4	11.6
70°-80°	435.2	6.0
80°-90°	87.3	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°	2132.0	29.3
0°-40°	3445.5	47.3
0°-60°	5917.2	81.2
0°-90°	7284.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7284.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2836	2836	2836	2836	2836	
5°	2825	2806	2805	2824	2810	267
15°	2654	2659	2651	2668	2653	747
25°	2383	2394	2430	2464	2437	1098
35°	2050	2059	2116	2140	2126	1277
45°	1647	1654	1724	1746	1741	1269
55°	1231	1259	1304	1323	1312	1105
65°	823	842	870	867	853	814
75°	411	414	428	398	374	435
85°	73	71	70	56	51	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2835.9	2835.9	2835.9	2835.9	2835.9
2.5°	2849.9	2835.9	2817.3	2832.8	2829.7
5°	2825.0	2806.4	2804.9	2823.5	2809.5
7.5°	2794.0	2790.9	2772.3	2792.5	2784.7
10°	2753.7	2750.6	2744.4	2758.4	2747.5
12.5°	2705.7	2702.6	2705.7	2713.4	2705.7
15°	2654.5	2659.1	2651.4	2668.4	2652.9
17.5°	2586.3	2590.9	2606.4	2612.6	2611.1
20°	2530.4	2533.6	2552.2	2577.0	2550.6
22.5°	2457.6	2465.3	2474.6	2519.6	2513.4
25°	2383.2	2394.0	2429.7	2463.8	2437.4
27.5°	2305.6	2316.5	2359.9	2384.7	2381.6
30°	2221.9	2232.7	2287.0	2321.1	2305.6
32.5°	2135.1	2153.7	2212.6	2242.1	2212.6
35°	2049.8	2059.1	2116.5	2139.7	2125.8
37.5°	1936.6	1972.3	2029.6	2045.1	2020.3
40°	1851.3	1852.9	1935.0	1935.0	1933.5
42.5°	1741.2	1766.0	1820.3	1849.8	1834.3
45°	1646.7	1654.4	1724.2	1745.9	1741.2
47.5°	1542.8	1573.8	1624.9	1649.8	1637.3
50°	1440.4	1462.1	1514.9	1547.4	1535.0
52.5°	1345.9	1362.9	1417.2	1435.8	1423.4
55°	1231.1	1259.0	1304.0	1322.6	1311.7
57.5°	1131.9	1152.0	1207.9	1214.1	1207.9
60°	1028.0	1051.3	1096.2	1100.9	1088.5
62.5°	928.8	944.3	984.6	986.1	972.2
65°	823.3	841.9	869.8	866.7	852.8
67.5°	719.4	731.8	758.2	747.4	731.8
70°	614.0	624.9	646.6	631.1	617.1
72.5°	511.7	519.4	538.0	514.8	497.7
75°	410.9	414.0	427.9	398.5	373.7
77.5°	311.7	314.8	322.5	293.0	265.1
80°	221.7	221.7	224.8	193.8	175.2
82.5°	139.5	139.5	138.0	114.7	103.9
85°	72.9	71.3	69.8	55.8	51.2
87.5°	26.4	26.4	21.7	20.2	21.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)