

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: P485124

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-2HI-27-120-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: P485124
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-12-4-INS-A125-LD4-2HI-27-120-EDD-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

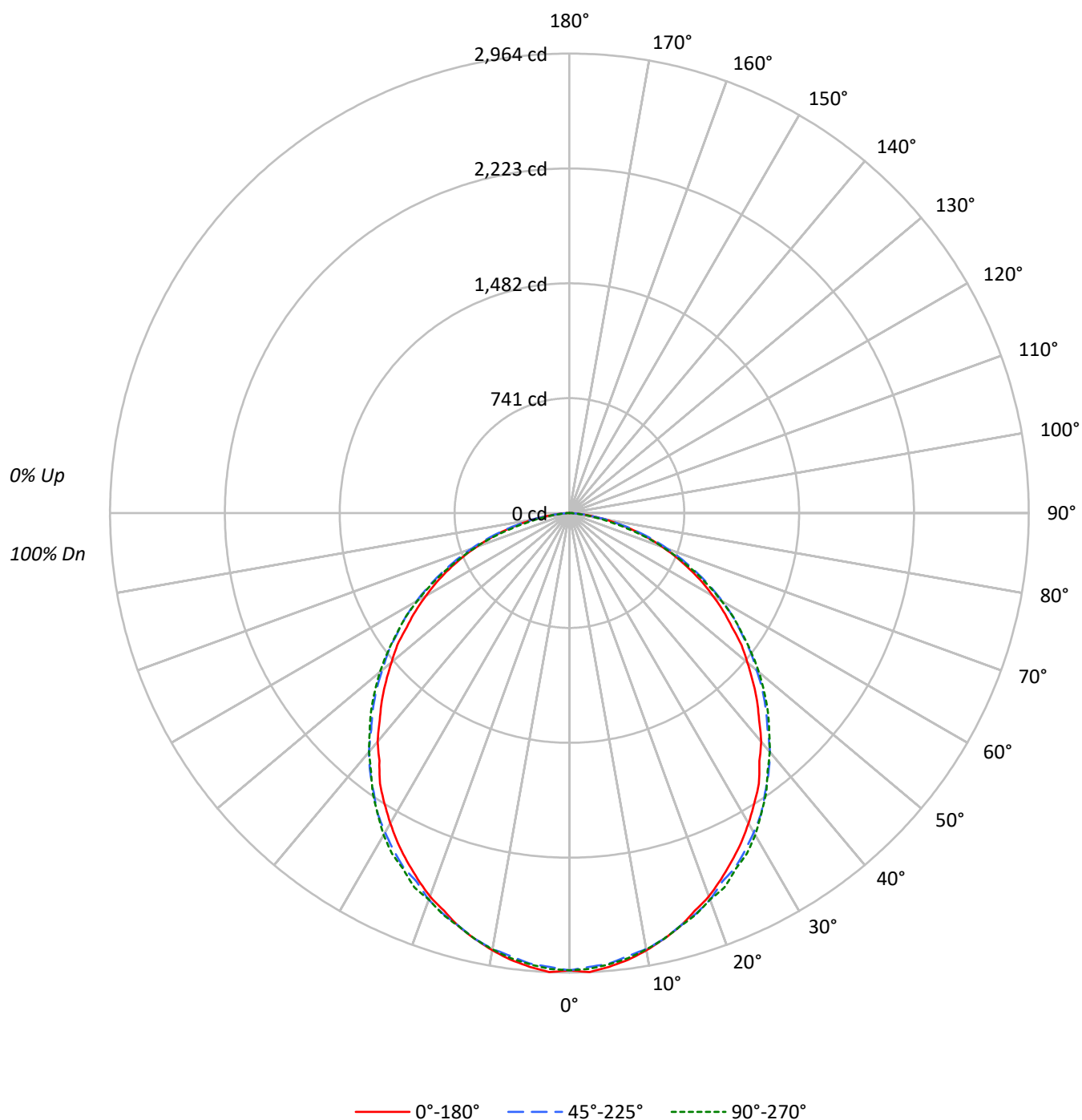
Lumens per Lamp: N/A
Luminaire Lumens: 7576.1 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	7937	7937	7937
5°	7937	7880	7893
10°	7826	7800	7808
15°	7692	7682	7687
20°	7537	7601	7597
25°	7360	7503	7527
30°	7181	7391	7451
35°	7003	7231	7263
40°	6764	7070	7064
45°	6518	6825	6892
50°	6272	6596	6684
55°	6007	6363	6401
60°	5754	6136	6093
65°	5452	5761	5648
70°	5024	5291	5050
75°	4444	4628	4040
80°	3574	3623	2824
85°	2340	2242	1643



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.2	3.7
10°-20°	779.6	10.3
20°-30°	1160.6	15.3
30°-40°	1366.1	18.0
40°-50°	1369.7	18.1
50°-60°	1201.1	15.9
60°-70°	878.3	11.6
70°-80°	452.6	6.0
80°-90°	90.8	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°	2217.4	29.3
0°-40°	3583.5	47.3
0°-60°	6154.4	81.2
0°-90°	7576.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7576.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2950	2950	2950	2950	2950	
5°	2938	2919	2917	2937	2922	278
15°	2761	2766	2758	2775	2759	777
25°	2479	2490	2527	2562	2535	1142
35°	2132	2142	2201	2226	2211	1328
45°	1713	1721	1793	1816	1811	1320
55°	1280	1310	1356	1376	1364	1149
65°	856	876	905	902	887	847
75°	427	431	445	414	389	453
85°	76	74	73	58	53	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2949.5	2949.5	2949.5	2949.5	2949.5
2.5°	2964.1	2949.5	2930.2	2946.3	2943.1
5°	2938.3	2918.9	2917.3	2936.6	2922.1
7.5°	2906.0	2902.8	2883.4	2904.4	2896.3
10°	2864.1	2860.8	2854.4	2868.9	2857.6
12.5°	2814.1	2810.9	2814.1	2822.1	2814.1
15°	2760.9	2765.7	2757.6	2775.4	2759.3
17.5°	2689.9	2694.7	2710.9	2717.3	2715.7
20°	2631.9	2635.1	2654.4	2680.2	2652.8
22.5°	2556.1	2564.1	2573.8	2620.6	2614.1
25°	2478.7	2489.9	2527.0	2562.5	2535.1
27.5°	2398.0	2409.3	2454.5	2480.3	2477.0
30°	2310.9	2322.2	2378.7	2414.1	2398.0
32.5°	2220.6	2240.0	2301.3	2331.9	2301.3
35°	2131.9	2141.6	2201.3	2225.5	2210.9
37.5°	2014.2	2051.3	2111.0	2127.1	2101.3
40°	1925.5	1927.1	2012.6	2012.6	2011.0
42.5°	1811.0	1836.8	1893.3	1923.9	1907.8
45°	1712.6	1720.7	1793.3	1815.8	1811.0
47.5°	1604.6	1636.8	1690.1	1715.9	1703.0
50°	1498.2	1520.7	1575.6	1609.4	1596.5
52.5°	1399.8	1417.5	1474.0	1493.3	1480.4
55°	1280.4	1309.5	1356.2	1375.6	1364.3
57.5°	1177.2	1198.2	1256.3	1262.7	1256.3
60°	1069.2	1093.4	1140.1	1145.0	1132.1
62.5°	966.0	982.1	1024.0	1025.6	1011.1
65°	856.3	875.7	904.7	901.5	887.0
67.5°	748.3	761.2	788.6	777.3	761.2
70°	638.6	649.9	672.5	656.4	641.8
72.5°	532.2	540.2	559.6	535.4	517.7
75°	427.4	430.6	445.1	414.5	388.6
77.5°	324.1	327.4	335.4	304.8	275.8
80°	230.6	230.6	233.8	201.6	182.2
82.5°	145.1	145.1	143.5	119.3	108.0
85°	75.8	74.2	72.6	58.1	53.2
87.5°	27.4	27.4	22.6	21.0	22.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)