

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: P485185

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-3STD-27-120-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: P485185  
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-LD4-3STD-27-120-EDD  
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

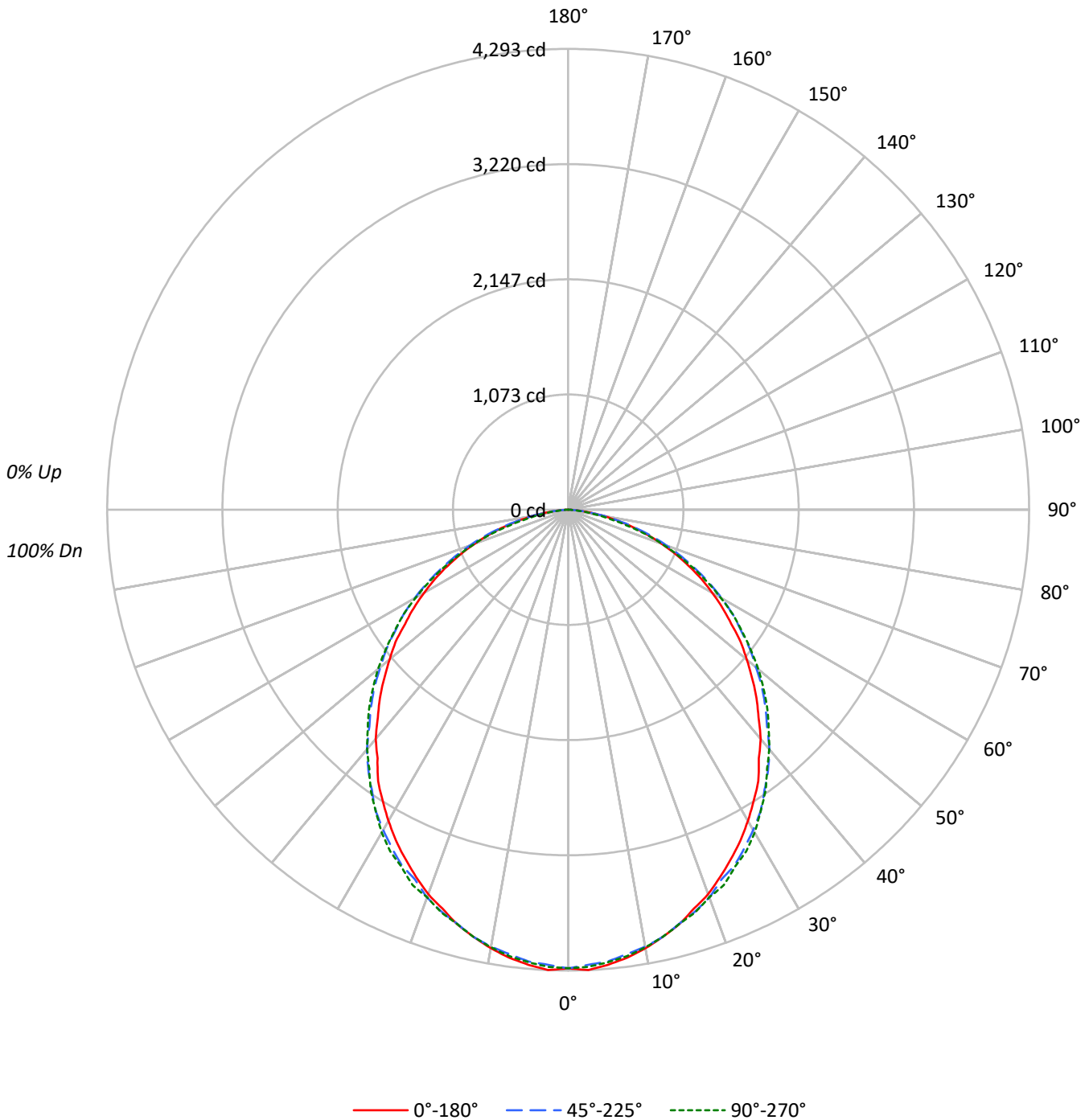
Lumens per Lamp: N/A  
Luminaire Lumens: 10972.4 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 99.9  
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	59	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	11495	11495	11495
5°	11495	11413	11432
10°	11334	11296	11309
15°	11139	11127	11133
20°	10915	11009	11003
25°	10659	10867	10902
30°	10400	10705	10792
35°	10143	10473	10519
40°	9796	10239	10231
45°	9439	9884	9982
50°	9084	9553	9680
55°	8701	9215	9270
60°	8334	8887	8824
65°	7897	8343	8180
70°	7277	7663	7314
75°	6435	6702	5853
80°	5176	5249	4090
85°	3390	3245	2381



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	401.5	3.7
10°-20°	1129.0	10.3
20°-30°	1680.9	15.3
30°-40°	1978.5	18.0
40°-50°	1983.7	18.1
50°-60°	1739.6	15.9
60°-70°	1272.0	11.6
70°-80°	655.5	6.0
80°-90°	131.5	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°	3211.5	29.3
0°-40°	5190.0	47.3
0°-60°	8913.3	81.2
0°-90°	10972.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10972.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4272	4272	4272	4272	4272	
5°	4256	4227	4225	4253	4232	403
15°	3998	4006	3994	4020	3996	1125
25°	3590	3606	3660	3711	3672	1654
35°	3088	3102	3188	3223	3202	1923
45°	2480	2492	2597	2630	2623	1912
55°	1854	1896	1964	1992	1976	1665
65°	1240	1268	1310	1306	1285	1227
75°	619	624	645	600	563	656
85°	110	107	105	84	77	143
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4271.8	4271.8	4271.8	4271.8	4271.8
2.5°	4292.8	4271.8	4243.8	4267.1	4262.5
5°	4255.5	4227.4	4225.1	4253.1	4232.1
7.5°	4208.7	4204.1	4176.0	4206.4	4194.7
10°	4148.0	4143.3	4134.0	4155.0	4138.7
12.5°	4075.6	4070.9	4075.6	4087.3	4075.6
15°	3998.5	4005.5	3993.9	4019.6	3996.2
17.5°	3895.8	3902.8	3926.1	3935.5	3933.1
20°	3811.7	3816.4	3844.4	3881.8	3842.1
22.5°	3701.9	3713.6	3727.6	3795.3	3786.0
25°	3589.8	3606.2	3659.9	3711.3	3671.6
27.5°	3473.0	3489.4	3554.8	3592.1	3587.5
30°	3346.9	3363.3	3445.0	3496.4	3473.0
32.5°	3216.1	3244.1	3332.9	3377.3	3332.9
35°	3087.7	3101.7	3188.1	3223.1	3202.1
37.5°	2917.2	2970.9	3057.3	3080.6	3043.3
40°	2788.7	2791.0	2914.8	2914.8	2912.5
42.5°	2622.9	2660.2	2742.0	2786.4	2763.0
45°	2480.4	2492.1	2597.2	2629.9	2622.9
47.5°	2323.9	2370.6	2447.7	2485.1	2466.4
50°	2169.8	2202.5	2281.9	2330.9	2312.2
52.5°	2027.3	2053.0	2134.7	2162.8	2144.1
55°	1854.5	1896.5	1964.2	1992.3	1975.9
57.5°	1705.0	1735.3	1819.4	1828.8	1819.4
60°	1548.5	1583.5	1651.3	1658.3	1639.6
62.5°	1399.0	1422.4	1483.1	1485.4	1464.4
65°	1240.2	1268.2	1310.3	1305.6	1284.6
67.5°	1083.7	1102.4	1142.1	1125.8	1102.4
70°	924.9	941.2	973.9	950.6	929.6
72.5°	770.7	782.4	810.5	775.4	749.7
75°	618.9	623.6	644.6	600.2	562.9
77.5°	469.5	474.1	485.8	441.4	399.4
80°	334.0	334.0	338.7	291.9	263.9
82.5°	210.2	210.2	207.9	172.8	156.5
85°	109.8	107.4	105.1	84.1	77.1
87.5°	39.7	39.7	32.7	30.4	32.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)