

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: P487265

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-4LO-35-120-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: P487265  
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-24-4-INS-A125-LD4-4LO-35-120-EDD  
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

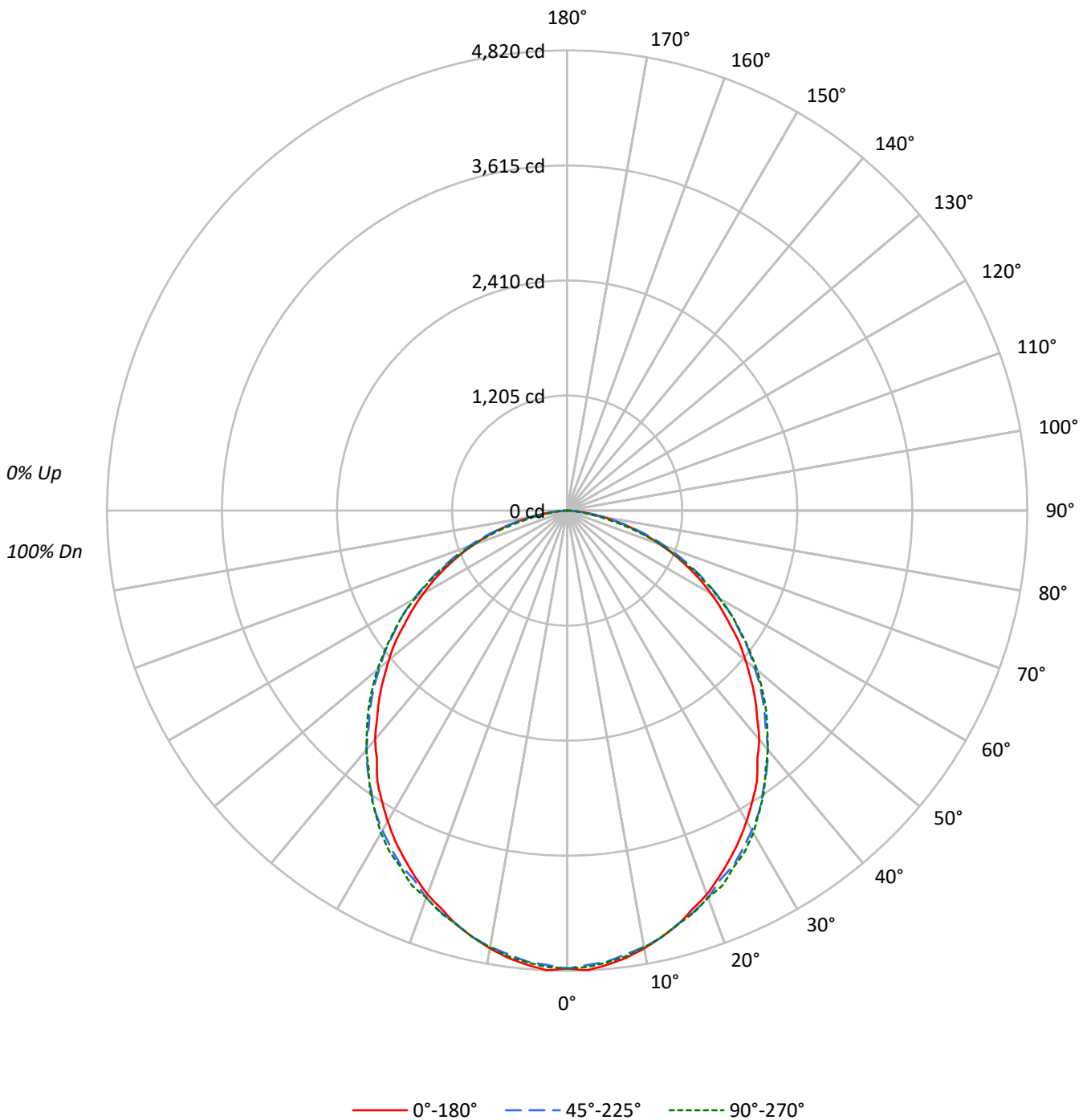
Lumens per Lamp: N/A  
Luminaire Lumens: 12318.6 lumens  
Efficiency: N/A  
Efficacy: 131.6 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 93.6  
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°	6453	6453	6453
5°	6453	6407	6417
10°	6362	6341	6348
15°	6253	6246	6249
20°	6127	6180	6176
25°	5983	6100	6119
30°	5838	6009	6058
35°	5694	5879	5905
40°	5499	5748	5743
45°	5299	5548	5603
50°	5099	5362	5434
55°	4884	5173	5204
60°	4678	4989	4953
65°	4433	4683	4592
70°	4085	4301	4105
75°	3612	3762	3285
80°	2906	2946	2296
85°	1902	1822	1335



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	450.8	3.7
10°-20°	1267.5	10.3
20°-30°	1887.1	15.3
30°-40°	2221.3	18.0
40°-50°	2227.1	18.1
50°-60°	1953.0	15.9
60°-70°	1428.1	11.6
70°-80°	736.0	6.0
80°-90°	147.7	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°	3605.5	29.3
0°-40°	5826.8	47.3
0°-60°	10006.9	81.2
0°-90°	12318.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12318.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4796	4796	4796	4796	4796	
5°	4778	4746	4744	4775	4751	452
15°	4489	4497	4484	4513	4486	1263
25°	4030	4049	4109	4167	4122	1856
35°	3466	3482	3579	3619	3595	2159
45°	2785	2798	2916	2952	2945	2146
55°	2082	2129	2205	2237	2218	1869
65°	1392	1424	1471	1466	1442	1377
75°	695	700	724	674	632	736
85°	123	121	118	94	86	161
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4795.9	4795.9	4795.9	4795.9	4795.9
2.5°	4819.5	4795.9	4764.4	4790.7	4785.4
5°	4777.6	4746.1	4743.5	4774.9	4751.3
7.5°	4725.1	4719.9	4688.4	4722.5	4709.4
10°	4656.9	4651.7	4641.2	4664.8	4646.4
12.5°	4575.6	4570.4	4575.6	4588.8	4575.6
15°	4489.1	4497.0	4483.9	4512.7	4486.5
17.5°	4373.7	4381.6	4407.8	4418.3	4415.7
20°	4279.3	4284.6	4316.1	4358.0	4313.4
22.5°	4156.1	4169.2	4184.9	4261.0	4250.5
25°	4030.2	4048.6	4108.9	4166.6	4122.0
27.5°	3899.1	3917.5	3990.9	4032.9	4027.6
30°	3757.5	3775.9	3867.7	3925.4	3899.1
32.5°	3610.7	3642.2	3741.8	3791.6	3741.8
35°	3466.5	3482.2	3579.2	3618.6	3595.0
37.5°	3275.1	3335.4	3432.4	3458.6	3416.7
40°	3130.8	3133.5	3272.4	3272.4	3269.8
42.5°	2944.7	2986.6	3078.4	3128.2	3102.0
45°	2784.7	2797.8	2915.8	2952.5	2944.7
47.5°	2609.0	2661.5	2748.0	2790.0	2769.0
50°	2436.0	2472.7	2561.8	2616.9	2595.9
52.5°	2276.0	2304.9	2396.6	2428.1	2407.1
55°	2082.0	2129.2	2205.2	2236.7	2218.3
57.5°	1914.2	1948.3	2042.7	2053.1	2042.7
60°	1738.5	1777.8	1853.9	1861.7	1840.7
62.5°	1570.7	1596.9	1665.1	1667.7	1644.1
65°	1392.4	1423.8	1471.0	1465.8	1442.2
67.5°	1216.7	1237.7	1282.2	1263.9	1237.7
70°	1038.4	1056.7	1093.4	1067.2	1043.6
72.5°	865.3	878.4	909.9	870.6	841.7
75°	694.9	700.1	723.7	673.9	631.9
77.5°	527.1	532.3	545.4	495.6	448.4
80°	375.0	375.0	380.2	327.8	296.3
82.5°	236.0	236.0	233.4	194.0	175.7
85°	123.2	120.6	118.0	94.4	86.5
87.5°	44.6	44.6	36.7	34.1	36.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)