

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: P487285

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-5HI-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: P487285  
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-LD4-5HI-27-120-EDD  
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

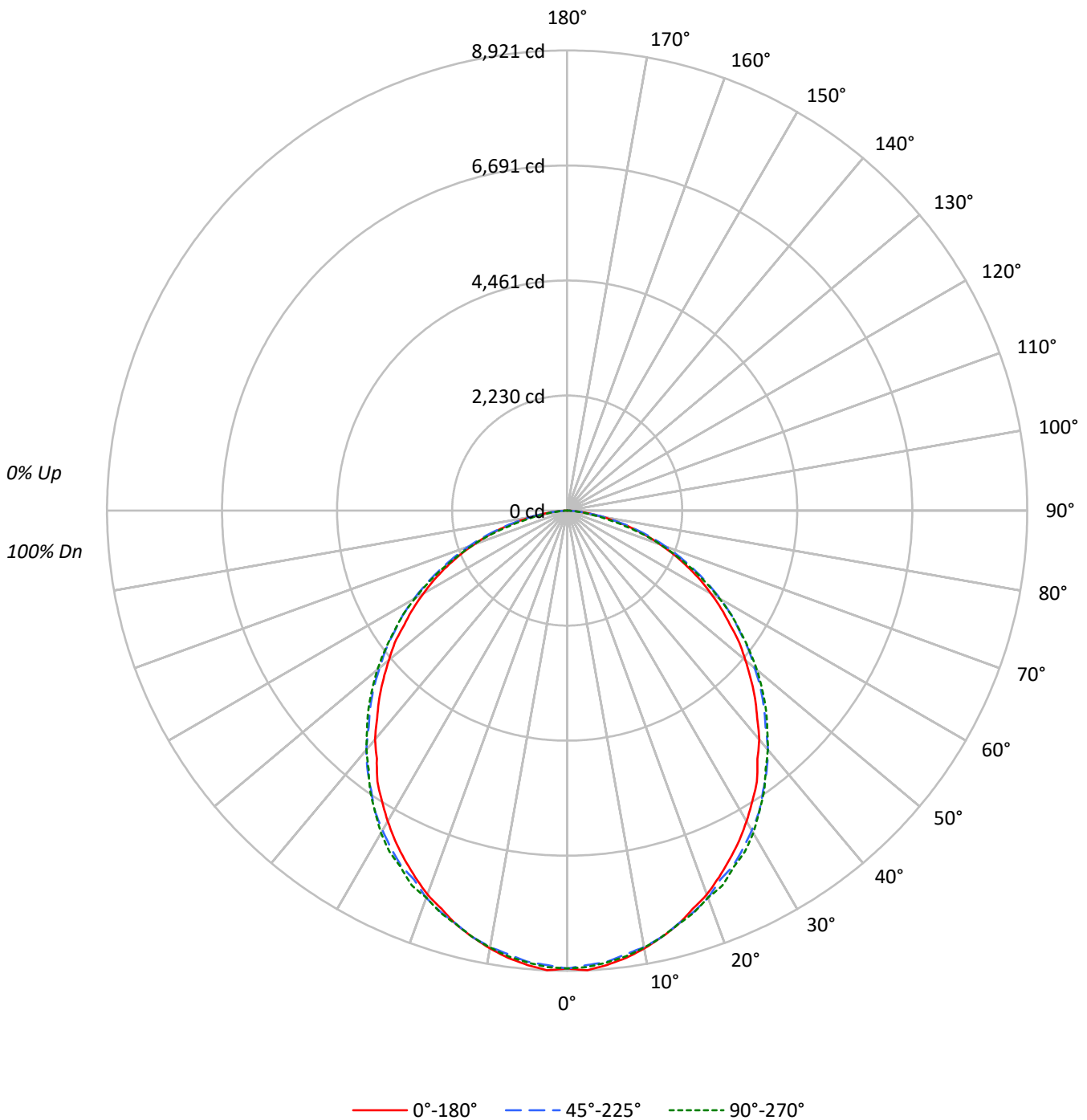
Lumens per Lamp: N/A  
Luminaire Lumens: 22801.8 lumens  
Efficiency: N/A  
Efficacy: 103.6 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 220  
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°	11944	11944	11944
5°	11944	11859	11878
10°	11777	11737	11751
15°	11575	11561	11568
20°	11342	11439	11432
25°	11075	11291	11327
30°	10806	11123	11213
35°	10539	10882	10930
40°	10179	10639	10631
45°	9808	10270	10371
50°	9438	9926	10058
55°	9040	9575	9632
60°	8659	9234	9169
65°	8205	8669	8499
70°	7561	7962	7599
75°	6686	6964	6081
80°	5378	5453	4250
85°	3521	3372	2473



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	834.4	3.7
10°-20°	2346.2	10.3
20°-30°	3493.1	15.3
30°-40°	4111.6	18.0
40°-50°	4122.4	18.1
50°-60°	3615.0	15.9
60°-70°	2643.4	11.6
70°-80°	1362.3	6.0
80°-90°	273.3	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°	6673.8	29.3
0°-40°	10785.4	47.3
0°-60°	18522.8	81.2
0°-90°	22801.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22801.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8877	8877	8877	8877	8877	
5°	8843	8785	8780	8838	8795	837
15°	8309	8324	8300	8353	8304	2339
25°	7460	7494	7606	7712	7630	3436
35°	6416	6446	6625	6698	6654	3996
45°	5154	5179	5397	5465	5451	3972
55°	3854	3941	4082	4140	4106	3459
65°	2577	2636	2723	2713	2670	2549
75°	1286	1296	1340	1247	1170	1363
85°	228	223	218	175	160	298
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8877.3	8877.3	8877.3	8877.3	8877.3
2.5°	8920.9	8877.3	8819.0	8867.5	8857.8
5°	8843.3	8785.0	8780.2	8838.4	8794.7
7.5°	8746.2	8736.5	8678.3	8741.4	8717.1
10°	8620.0	8610.3	8590.9	8634.6	8600.6
12.5°	8469.5	8459.8	8469.5	8493.8	8469.5
15°	8309.4	8323.9	8299.7	8353.1	8304.5
17.5°	8095.8	8110.4	8158.9	8178.3	8173.5
20°	7921.1	7930.8	7989.0	8066.7	7984.2
22.5°	7693.0	7717.2	7746.4	7887.1	7867.7
25°	7460.0	7494.0	7605.6	7712.4	7629.9
27.5°	7217.3	7251.3	7387.2	7464.9	7455.1
30°	6955.2	6989.2	7159.1	7265.9	7217.3
32.5°	6683.4	6741.7	6926.1	7018.3	6926.1
35°	6416.5	6445.6	6625.2	6698.0	6654.3
37.5°	6062.2	6173.8	6353.4	6401.9	6324.3
40°	5795.2	5800.1	6057.3	6057.3	6052.5
42.5°	5450.6	5528.3	5698.1	5790.4	5741.8
45°	5154.5	5178.8	5397.2	5465.2	5450.6
47.5°	4829.3	4926.4	5086.6	5164.2	5125.4
50°	4509.0	4577.0	4742.0	4843.9	4805.1
52.5°	4212.9	4266.3	4436.2	4494.4	4455.6
55°	3853.8	3941.1	4081.9	4140.1	4106.2
57.5°	3543.1	3606.2	3781.0	3800.4	3781.0
60°	3217.9	3290.7	3431.5	3446.1	3407.2
62.5°	2907.3	2955.8	3082.0	3086.9	3043.2
65°	2577.3	2635.5	2722.9	2713.2	2669.5
67.5°	2252.1	2290.9	2373.4	2339.4	2290.9
70°	1922.0	1956.0	2024.0	1975.4	1931.7
72.5°	1601.7	1626.0	1684.2	1611.4	1558.0
75°	1286.2	1295.9	1339.6	1247.4	1169.7
77.5°	975.6	985.3	1009.6	917.3	830.0
80°	694.1	694.1	703.8	606.7	548.5
82.5°	436.8	436.8	432.0	359.2	325.2
85°	228.1	223.3	218.4	174.7	160.2
87.5°	82.5	82.5	68.0	63.1	68.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)