

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: P487321

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-6HI-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: P487321  
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-LD4-6HI-27-120-EDD  
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

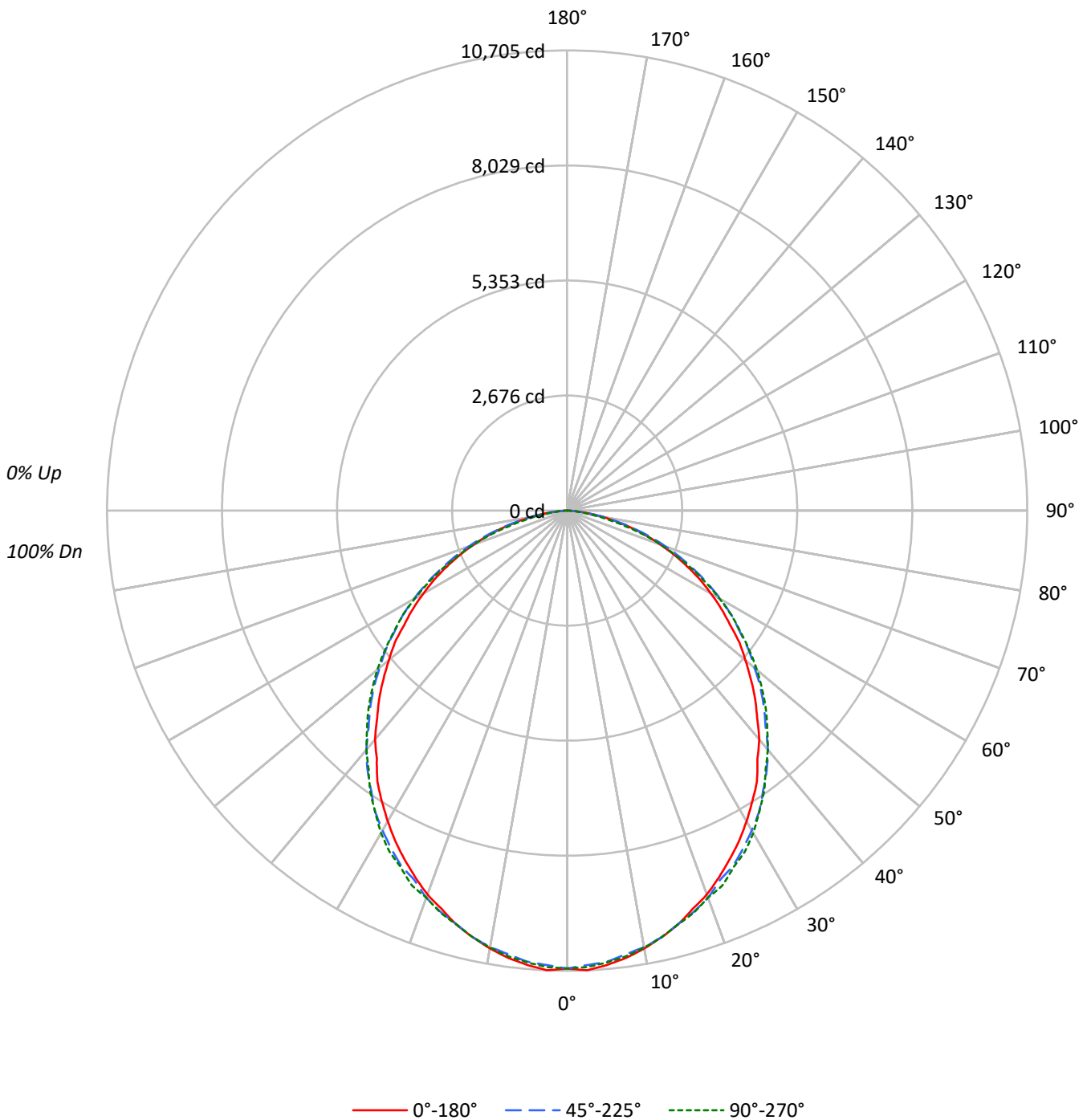
Lumens per Lamp: N/A  
Luminaire Lumens: 27362.2 lumens  
Efficiency: N/A  
Efficacy: 103.6 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 264  
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	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°	14333	14333	14333
5°	14333	14230	14254
10°	14132	14085	14101
15°	13890	13873	13881
20°	13610	13727	13718
25°	13290	13549	13593
30°	12967	13347	13456
35°	12647	13059	13116
40°	12215	12767	12757
45°	11770	12324	12446
50°	11326	11911	12070
55°	10848	11490	11559
60°	10391	11081	11003
65°	9846	10403	10199
70°	9073	9554	9119
75°	8024	8357	7297
80°	6454	6543	5100
85°	4225	4046	2967



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1001.3	3.7
10°-20°	2815.5	10.3
20°-30°	4191.7	15.3
30°-40°	4933.9	18.0
40°-50°	4946.9	18.1
50°-60°	4338.0	15.9
60°-70°	3172.1	11.6
70°-80°	1634.8	6.0
80°-90°	328.0	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°	8008.5	29.3
0°-40°	12942.5	47.3
0°-60°	22227.4	81.2
0°-90°	27362.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	27362.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10653	10653	10653	10653	10653	
5°	10612	10542	10536	10606	10554	###
15°	9971	9989	9960	10024	9965	2806
25°	8952	8993	9127	9255	9156	4124
35°	7700	7735	7950	8038	7985	4795
45°	6185	6215	6477	6558	6541	4767
55°	4624	4729	4898	4968	4927	4151
65°	3093	3163	3268	3256	3203	3059
75°	1544	1555	1608	1497	1404	1636
85°	274	268	262	210	192	357
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10652.7	10652.7	10652.7	10652.7	10652.7
2.5°	10705.1	10652.7	10582.8	10641.1	10629.4
5°	10611.9	10542.1	10536.2	10606.1	10553.7
7.5°	10495.5	10483.8	10413.9	10489.6	10460.5
10°	10344.0	10332.4	10309.1	10361.5	10320.7
12.5°	10163.5	10151.8	10163.5	10192.6	10163.5
15°	9971.3	9988.7	9959.6	10023.7	9965.4
17.5°	9715.0	9732.5	9790.7	9814.0	9808.2
20°	9505.3	9517.0	9586.9	9680.1	9581.0
22.5°	9231.6	9260.7	9295.6	9464.6	9441.3
25°	8952.0	8992.8	9126.7	9254.9	9155.9
27.5°	8660.8	8701.6	8864.6	8957.8	8946.2
30°	8346.3	8387.0	8590.9	8719.0	8660.8
32.5°	8020.1	8090.0	8311.3	8422.0	8311.3
35°	7699.8	7734.7	7950.2	8037.6	7985.2
37.5°	7274.6	7408.6	7624.1	7682.3	7589.1
40°	6954.3	6960.1	7268.8	7268.8	7263.0
42.5°	6540.7	6633.9	6837.8	6948.4	6890.2
45°	6185.4	6214.6	6476.7	6558.2	6540.7
47.5°	5795.2	5911.7	6103.9	6197.1	6150.5
50°	5410.8	5492.4	5690.4	5812.7	5766.1
52.5°	5055.5	5119.6	5323.4	5393.3	5346.7
55°	4624.5	4729.4	4898.3	4968.2	4927.4
57.5°	4251.8	4327.5	4537.2	4560.5	4537.2
60°	3861.5	3948.9	4117.8	4135.3	4088.7
62.5°	3488.8	3547.0	3698.5	3704.3	3651.9
65°	3092.7	3162.6	3267.5	3255.8	3203.4
67.5°	2702.5	2749.1	2848.1	2807.3	2749.1
70°	2306.4	2347.2	2428.7	2370.5	2318.1
72.5°	1922.0	1951.2	2021.0	1933.7	1869.6
75°	1543.5	1555.1	1607.5	1496.9	1403.7
77.5°	1170.7	1182.3	1211.5	1100.8	996.0
80°	832.9	832.9	844.5	728.0	658.2
82.5°	524.2	524.2	518.4	431.0	390.2
85°	273.7	267.9	262.1	209.7	192.2
87.5°	99.0	99.0	81.5	75.7	81.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)