

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: P487301

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-5LO-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: P487301
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-LD4-5LO-35-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

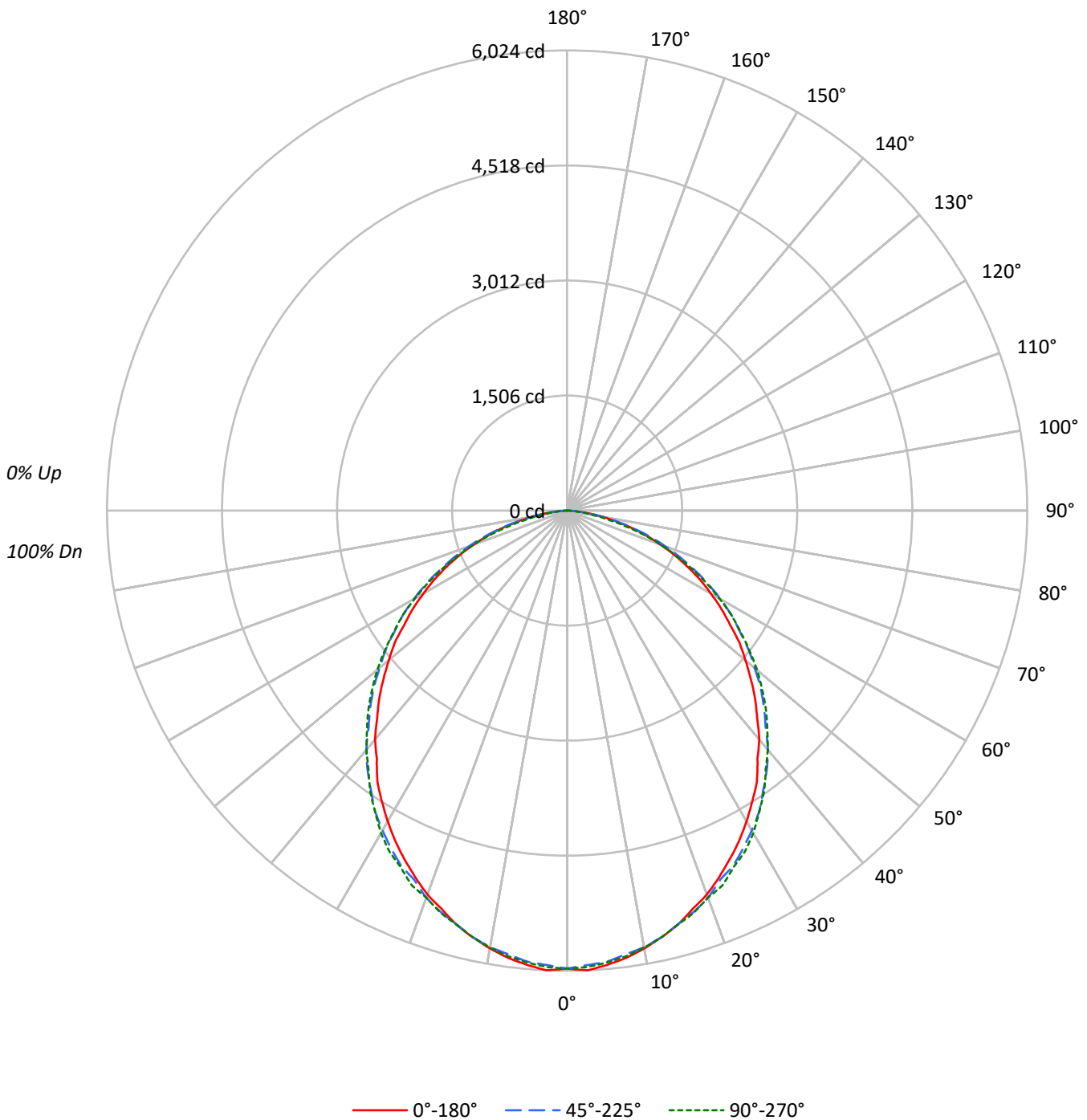
Lumens per Lamp: N/A
Luminaire Lumens: 15398.3 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 117
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°	8066	8066	8066
5°	8066	8008	8022
10°	7953	7926	7935
15°	7816	7807	7812
20°	7659	7725	7720
25°	7479	7625	7649
30°	7297	7511	7572
35°	7117	7349	7381
40°	6874	7185	7179
45°	6623	6935	7004
50°	6374	6703	6792
55°	6105	6466	6505
60°	5848	6236	6192
65°	5541	5854	5739
70°	5106	5377	5132
75°	4515	4703	4106
80°	3632	3683	2870
85°	2379	2277	1670



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	563.5	3.7
10°-20°	1584.4	10.3
20°-30°	2358.9	15.3
30°-40°	2776.6	18.0
40°-50°	2783.9	18.1
50°-60°	2441.2	15.9
60°-70°	1785.1	11.6
70°-80°	920.0	6.0
80°-90°	184.6	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°	4506.9	29.3
0°-40°	7283.5	47.3
0°-60°	12508.6	81.2
0°-90°	15398.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15398.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5995	5995	5995	5995	5995	
5°	5972	5933	5929	5969	5939	565
15°	5611	5621	5605	5641	5608	1579
25°	5038	5061	5136	5208	5152	2321
35°	4333	4353	4474	4523	4494	2699
45°	3481	3497	3645	3691	3681	2683
55°	2602	2662	2756	2796	2773	2336
65°	1740	1780	1839	1832	1803	1722
75°	869	875	905	842	790	920
85°	154	151	148	118	108	201
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5994.9	5994.9	5994.9	5994.9	5994.9
2.5°	6024.4	5994.9	5955.6	5988.3	5981.8
5°	5972.0	5932.6	5929.3	5968.7	5939.2
7.5°	5906.4	5899.9	5860.5	5903.1	5886.7
10°	5821.2	5814.6	5801.5	5831.0	5808.1
12.5°	5719.6	5713.0	5719.6	5736.0	5719.6
15°	5611.4	5621.2	5604.9	5640.9	5608.1
17.5°	5467.2	5477.0	5509.8	5522.9	5519.6
20°	5349.2	5355.8	5395.1	5447.5	5391.8
22.5°	5195.1	5211.5	5231.2	5326.3	5313.1
25°	5037.8	5060.8	5136.1	5208.3	5152.5
27.5°	4873.9	4896.9	4988.7	5041.1	5034.5
30°	4696.9	4719.9	4834.6	4906.7	4873.9
32.5°	4513.4	4552.7	4677.3	4739.5	4677.3
35°	4333.1	4352.8	4474.1	4523.2	4493.7
37.5°	4093.8	4169.2	4290.5	4323.3	4270.8
40°	3913.6	3916.8	4090.6	4090.6	4087.3
42.5°	3680.9	3733.3	3848.0	3910.3	3877.5
45°	3480.9	3497.3	3644.8	3690.7	3680.9
47.5°	3261.3	3326.9	3435.0	3487.5	3461.2
50°	3045.0	3090.9	3202.3	3271.1	3244.9
52.5°	2845.0	2881.1	2995.8	3035.1	3008.9
55°	2602.5	2661.5	2756.5	2795.9	2772.9
57.5°	2392.7	2435.3	2553.3	2566.4	2553.3
60°	2173.1	2222.3	2317.3	2327.2	2300.9
62.5°	1963.3	1996.1	2081.3	2084.6	2055.1
65°	1740.5	1779.8	1838.8	1832.2	1802.7
67.5°	1520.9	1547.1	1602.8	1579.8	1547.1
70°	1298.0	1320.9	1366.8	1334.0	1304.5
72.5°	1081.6	1098.0	1137.4	1088.2	1052.1
75°	868.6	875.1	904.6	842.4	789.9
77.5°	658.8	665.4	681.8	619.5	560.5
80°	468.7	468.7	475.3	409.7	370.4
82.5°	295.0	295.0	291.7	242.5	219.6
85°	154.1	150.8	147.5	118.0	108.2
87.5°	55.7	55.7	45.9	42.6	45.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)