

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: P487248

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-4HI-27-120-EDD-90**

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: P487248
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-LD4-4HI-27-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

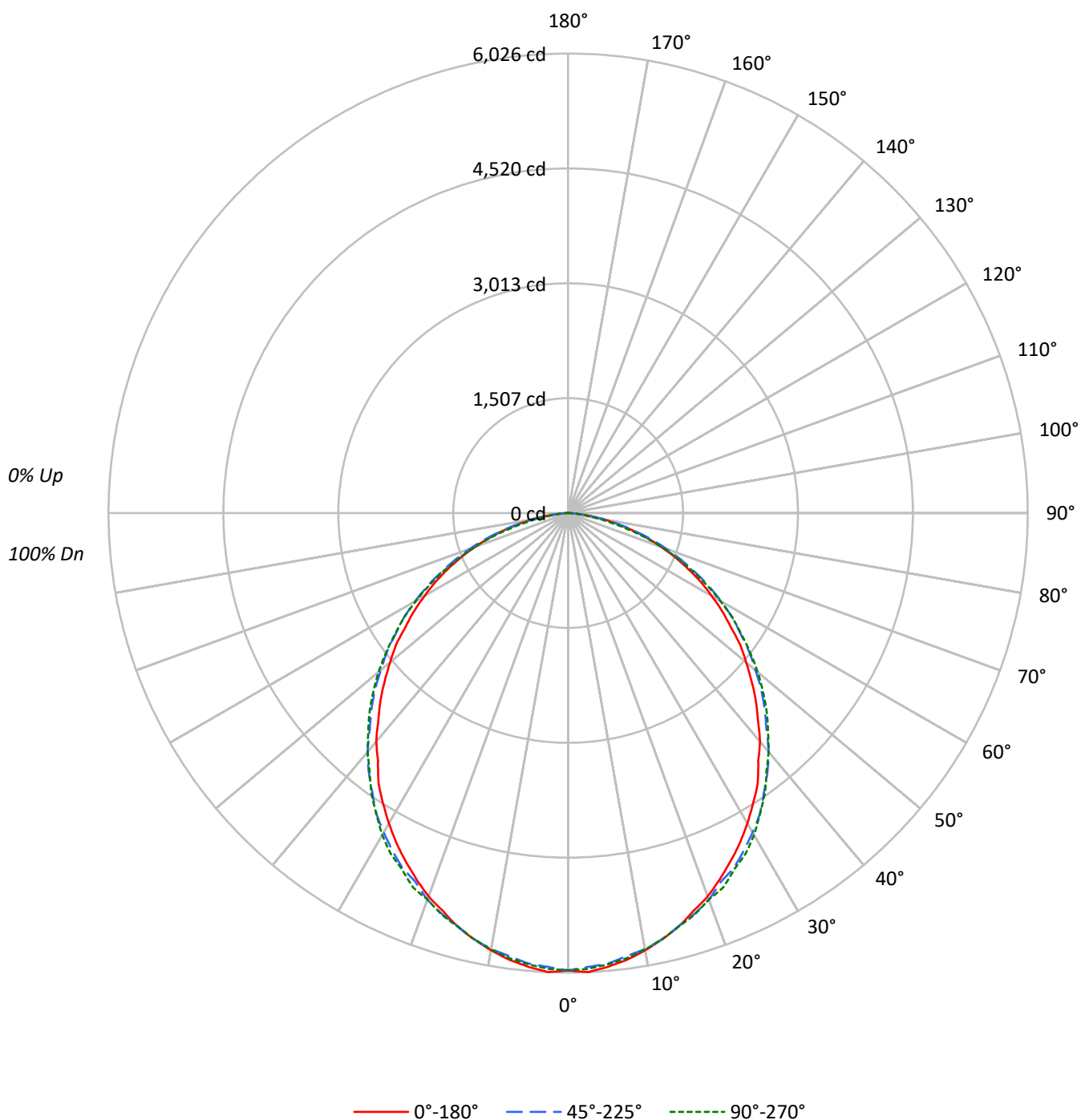
Lumens per Lamp: N/A
Luminaire Lumens: 15402.9 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 176
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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	102	99	95		98	95	92		94	92	90		91	89	87
2	100	92	85	79	97	90	84	79		86	81	77		83	79	75		80	76	73
3	91	81	73	66	89	79	72	66		76	70	65		73	68	64		71	66	62
4	83	72	63	57	81	70	62	56		68	61	55		66	59	55		63	58	54
5	77	64	55	49	75	63	55	49		61	54	48		59	53	48		57	52	47
6	71	58	49	43	69	57	49	43		55	48	42		53	47	42		52	46	41
7	66	53	44	38	64	52	44	38		50	43	37		49	42	37		47	41	37
8	61	48	40	34	60	47	39	34		46	39	34		45	38	33		44	38	33
9	57	44	36	31	56	44	36	30		42	35	30		41	35	30		40	34	30
10	54	41	33	28	53	40	33	28		39	32	28		38	32	27		37	32	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8068	8068	8068
5°	8068	8011	8024
10°	7956	7929	7938
15°	7819	7810	7814
20°	7661	7727	7722
25°	7481	7627	7652
30°	7299	7513	7575
35°	7119	7351	7383
40°	6876	7187	7181
45°	6626	6937	7006
50°	6376	6705	6794
55°	6107	6468	6507
60°	5850	6238	6194
65°	5543	5856	5741
70°	5108	5378	5133
75°	4517	4704	4108
80°	3633	3684	2871
85°	2379	2277	1670



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	563.7	3.7
10°-20°	1584.9	10.3
20°-30°	2359.6	15.3
30°-40°	2777.5	18.0
40°-50°	2784.8	18.1
50°-60°	2442.0	15.9
60°-70°	1785.6	11.6
70°-80°	920.3	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°	4508.2	29.3
0°-40°	7285.7	47.3
0°-60°	12512.4	81.2
0°-90°	15402.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15402.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5997	5997	5997	5997	5997	
5°	5974	5934	5931	5970	5941	565
15°	5613	5623	5606	5643	5610	1580
25°	5039	5062	5138	5210	5154	2321
35°	4334	4354	4475	4525	4495	2699
45°	3482	3498	3646	3692	3682	2683
55°	2603	2662	2757	2797	2774	2337
65°	1741	1780	1839	1833	1803	1722
75°	869	875	905	843	790	921
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°	5996.7	5996.7	5996.7	5996.7	5996.7
2.5°	6026.2	5996.7	5957.4	5990.1	5983.6
5°	5973.7	5934.4	5931.1	5970.5	5941.0
7.5°	5908.2	5901.6	5862.3	5904.9	5888.5
10°	5822.9	5816.4	5803.3	5832.8	5809.8
12.5°	5721.3	5714.7	5721.3	5737.7	5721.3
15°	5613.1	5622.9	5606.5	5642.6	5609.8
17.5°	5468.8	5478.7	5511.5	5524.6	5521.3
20°	5350.8	5357.4	5396.7	5449.2	5393.4
22.5°	5196.7	5213.1	5232.8	5327.8	5314.7
25°	5039.3	5062.3	5137.7	5209.8	5154.1
27.5°	4875.4	4898.3	4990.1	5042.6	5036.0
30°	4698.3	4721.3	4836.0	4908.2	4875.4
32.5°	4514.7	4554.1	4678.7	4741.0	4678.7
35°	4334.4	4354.1	4475.4	4524.6	4495.1
37.5°	4095.1	4170.5	4291.8	4324.6	4272.1
40°	3914.7	3918.0	4091.8	4091.8	4088.5
42.5°	3682.0	3734.4	3849.2	3911.5	3878.7
45°	3482.0	3498.3	3645.9	3691.8	3682.0
47.5°	3262.3	3327.9	3436.1	3488.5	3462.3
50°	3045.9	3091.8	3203.3	3272.1	3245.9
52.5°	2845.9	2882.0	2996.7	3036.1	3009.8
55°	2603.3	2662.3	2757.4	2796.7	2773.8
57.5°	2393.4	2436.1	2554.1	2567.2	2554.1
60°	2173.8	2222.9	2318.0	2327.9	2301.6
62.5°	1963.9	1996.7	2082.0	2085.2	2055.7
65°	1741.0	1780.3	1839.3	1832.8	1803.3
67.5°	1521.3	1547.5	1603.3	1580.3	1547.5
70°	1298.4	1321.3	1367.2	1334.4	1304.9
72.5°	1082.0	1098.4	1137.7	1088.5	1052.5
75°	868.8	875.4	904.9	842.6	790.2
77.5°	659.0	665.6	682.0	619.7	560.7
80°	468.9	468.9	475.4	409.8	370.5
82.5°	295.1	295.1	291.8	242.6	219.7
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)