

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: P487288

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-5HI-35-120-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: P487288
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-35-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

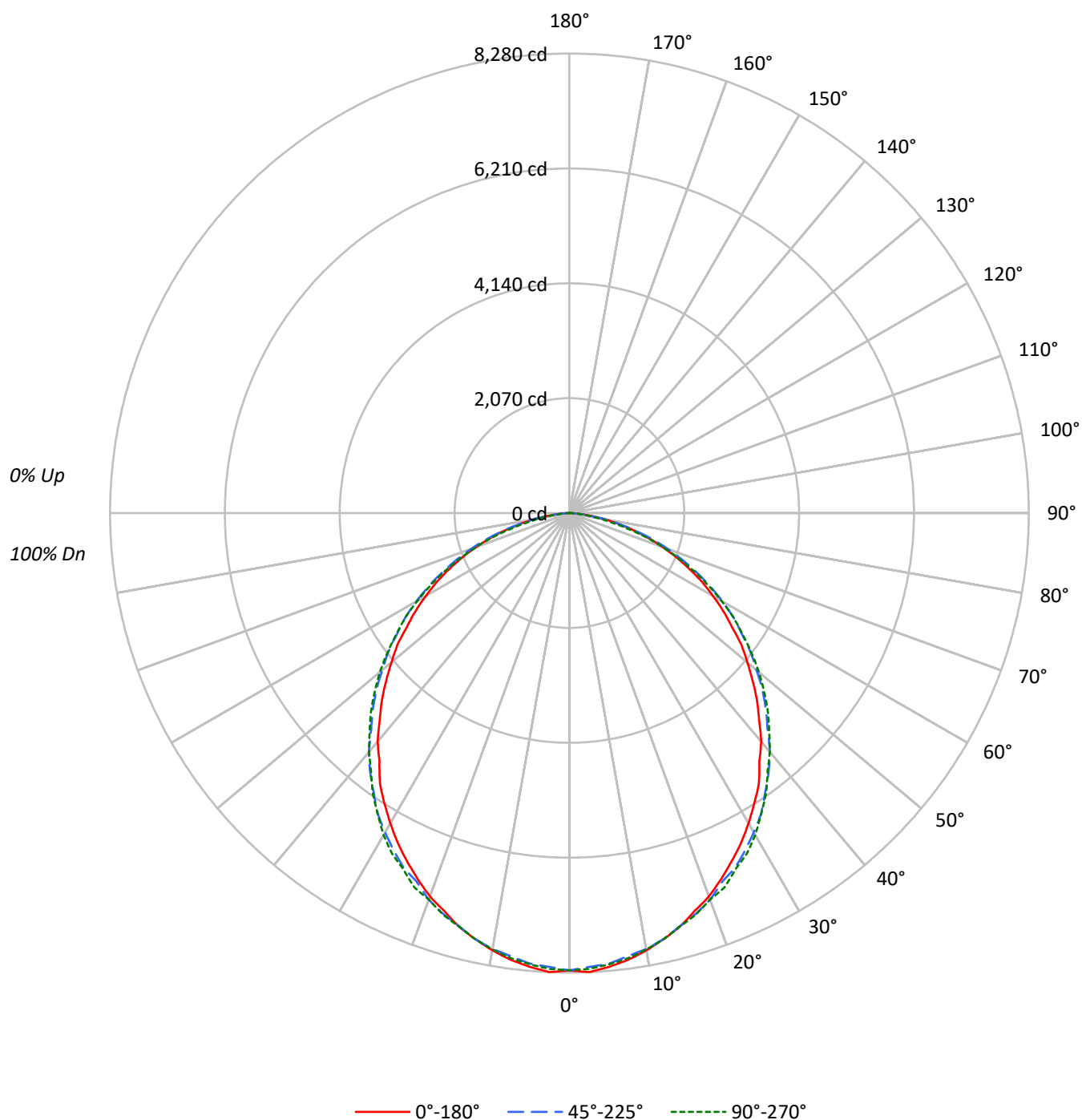
Lumens per Lamp: N/A
Luminaire Lumens: 21163.9 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P487288

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-5HI-35-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P487288

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-5HI-35-120-EDD-90

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°	11086	11086	11086
5°	11086	11007	11025
10°	10931	10894	10906
15°	10743	10731	10737
20°	10527	10617	10611
25°	10279	10480	10514
30°	10030	10324	10408
35°	9782	10100	10145
40°	9448	9875	9867
45°	9104	9532	9627
50°	8760	9213	9336
55°	8391	8887	8940
60°	8037	8571	8510
65°	7616	8046	7888
70°	7018	7390	7054
75°	6206	6464	5644
80°	4991	5061	3945
85°	3268	3129	2296



TEST NUMBER: P487288

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-5HI-35-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	774.5	3.7
10°-20°	2177.7	10.3
20°-30°	3242.2	15.3
30°-40°	3816.3	18.0
40°-50°	3826.3	18.1
50°-60°	3355.3	15.9
60°-70°	2453.5	11.6
70°-80°	1264.4	6.0
80°-90°	253.7	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°	6194.4	29.3
0°-40°	10010.6	47.3
0°-60°	17192.3	81.2
0°-90°	21163.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21163.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8240	8240	8240	8240	8240	
5°	8208	8154	8150	8204	8163	777
15°	7712	7726	7704	7753	7708	2171
25°	6924	6956	7059	7158	7082	3189
35°	5956	5983	6149	6217	6176	3709
45°	4784	4807	5010	5073	5059	3687
55°	3577	3658	3789	3843	3811	3211
65°	2392	2446	2527	2518	2478	2366
75°	1194	1203	1243	1158	1086	1265
85°	212	207	203	162	149	276
90°	0	0	0	0	0	



TEST NUMBER: P487288

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-5HI-35-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8239.6	8239.6	8239.6	8239.6	8239.6
2.5°	8280.1	8239.6	8185.5	8230.6	8221.6
5°	8208.0	8154.0	8149.5	8203.5	8163.0
7.5°	8117.9	8108.9	8054.9	8113.4	8090.9
10°	8000.8	7991.8	7973.8	8014.3	7982.8
12.5°	7861.2	7852.2	7861.2	7883.7	7861.2
15°	7712.5	7726.0	7703.5	7753.0	7708.0
17.5°	7514.3	7527.8	7572.8	7590.9	7586.4
20°	7352.1	7361.1	7415.2	7487.3	7410.7
22.5°	7140.4	7162.9	7189.9	7320.6	7302.5
25°	6924.1	6955.7	7059.3	7158.4	7081.8
27.5°	6698.9	6730.4	6856.6	6928.6	6919.6
30°	6455.6	6487.1	6644.8	6743.9	6698.9
32.5°	6203.3	6257.4	6428.6	6514.2	6428.6
35°	5955.6	5982.6	6149.3	6216.9	6176.3
37.5°	5626.7	5730.3	5897.0	5942.0	5870.0
40°	5378.9	5383.4	5622.2	5622.2	5617.7
42.5°	5059.1	5131.2	5288.8	5374.4	5329.4
45°	4784.3	4806.8	5009.5	5072.6	5059.1
47.5°	4482.4	4572.5	4721.2	4793.3	4757.2
50°	4185.1	4248.2	4401.4	4496.0	4459.9
52.5°	3910.3	3959.9	4117.5	4171.6	4135.6
55°	3576.9	3658.0	3788.7	3842.7	3811.2
57.5°	3288.6	3347.2	3509.4	3527.4	3509.4
60°	2986.8	3054.4	3185.0	3198.5	3162.5
62.5°	2698.5	2743.5	2860.7	2865.2	2824.6
65°	2392.1	2446.2	2527.3	2518.3	2477.7
67.5°	2090.3	2126.3	2202.9	2171.4	2126.3
70°	1784.0	1815.5	1878.6	1833.5	1793.0
72.5°	1486.6	1509.2	1563.2	1495.6	1446.1
75°	1193.8	1202.8	1243.4	1157.8	1085.7
77.5°	905.5	914.5	937.0	851.4	770.3
80°	644.2	644.2	653.2	563.1	509.1
82.5°	405.4	405.4	400.9	333.4	301.8
85°	211.7	207.2	202.7	162.2	148.7
87.5°	76.6	76.6	63.1	58.6	63.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)