

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: P487330

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-6LO-20-120-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: P487330
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-LD4-6LO-20-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

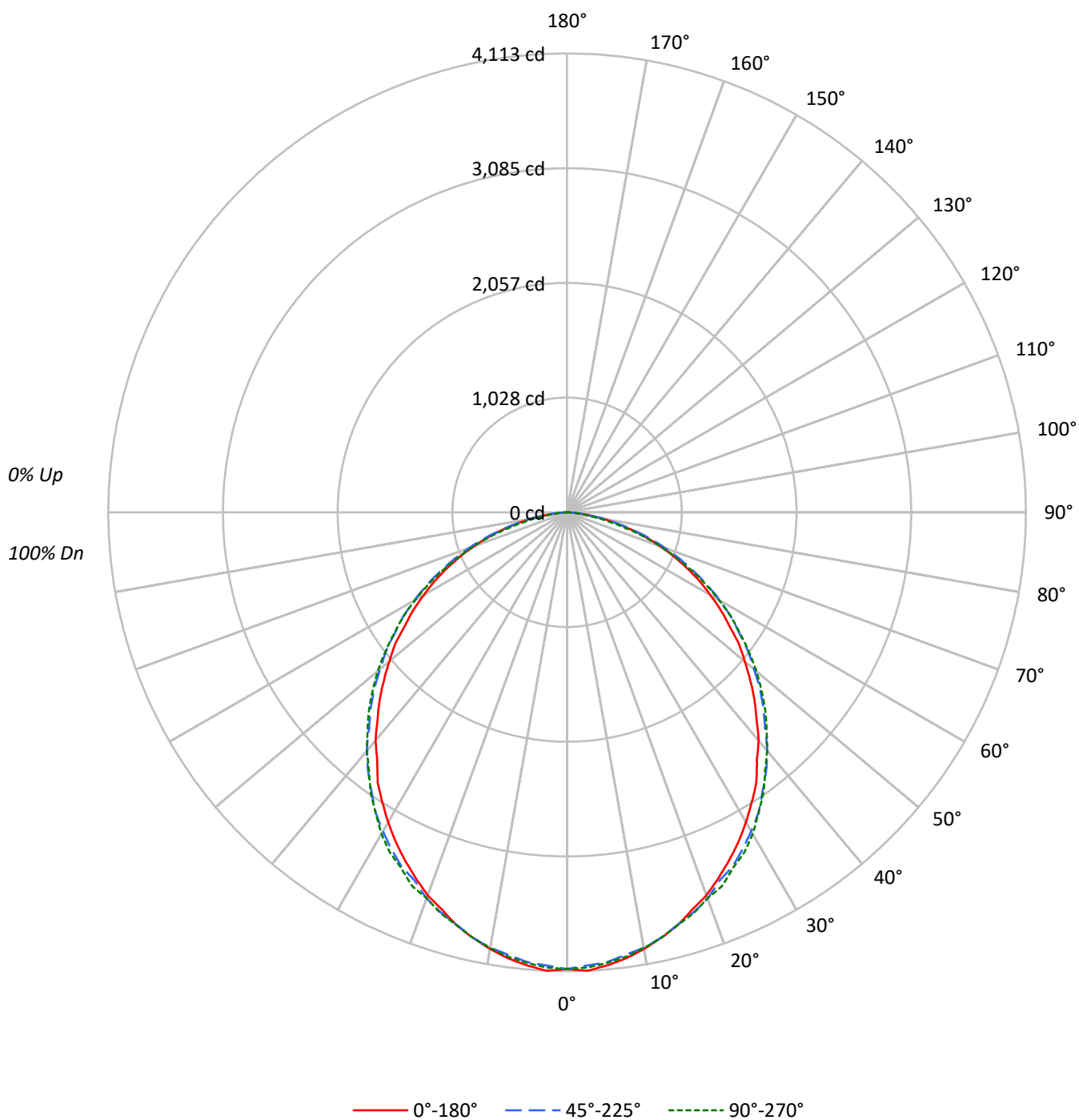
Lumens per Lamp: N/A
Luminaire Lumens: 10513.8 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 140.4
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: P487330

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-6LO-20-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P487330

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-6LO-20-120-EDD-90

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	101	97	107	102	99	95	98	95	92		94	92	90		91
2	100	92	85	79	97	90	84	79	86	81	77		83	79	75		80
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71
4	83	72	63	57	81	70	62	56	68	61	55		66	59	55		63
5	77	64	55	49	75	63	55	49	61	54	48		59	53	48		57
6	71	58	49	43	69	57	49	43	55	48	42		53	47	42		52
7	66	53	44	38	64	52	44	38	50	43	37		49	42	37		47
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		44
9	57	44	36	31	56	44	36	30	42	35	30		41	35	30		40
10	54	41	33	28	53	40	33	28	39	32	28		38	32	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5507	5507	5507
5°	5507	5468	5477
10°	5430	5412	5418
15°	5337	5331	5334
20°	5230	5274	5271
25°	5107	5206	5223
30°	4983	5129	5170
35°	4860	5018	5040
40°	4693	4906	4902
45°	4522	4735	4782
50°	4352	4577	4638
55°	4168	4415	4441
60°	3993	4258	4228
65°	3784	3997	3919
70°	3486	3671	3504
75°	3083	3211	2804
80°	2479	2514	1960
85°	1624	1555	1141



TEST NUMBER: P487330

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-6LO-20-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.7	3.7
10°-20°	1081.8	10.3
20°-30°	1610.7	15.3
30°-40°	1895.8	18.0
40°-50°	1900.8	18.1
50°-60°	1666.9	15.9
60°-70°	1218.8	11.6
70°-80°	628.1	6.0
80°-90°	126.0	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°	3077.2	29.3
0°-40°	4973.1	47.3
0°-60°	8540.8	81.2
0°-90°	10513.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10513.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4093	4093	4093	4093	4093	
5°	4078	4051	4048	4075	4055	386
15°	3831	3838	3827	3852	3829	1078
25°	3440	3455	3507	3556	3518	1584
35°	2959	2972	3055	3088	3068	1843
45°	2377	2388	2489	2520	2513	1832
55°	1777	1817	1882	1909	1893	1595
65°	1188	1215	1256	1251	1231	1176
75°	593	598	618	575	539	628
85°	105	103	101	81	74	137
90°	0	0	0	0	0	



TEST NUMBER: P487330

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-6LO-20-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4093.3	4093.3	4093.3	4093.3	4093.3
2.5°	4113.4	4093.3	4066.4	4088.8	4084.3
5°	4077.6	4050.7	4048.5	4075.4	4055.2
7.5°	4032.8	4028.4	4001.5	4030.6	4019.4
10°	3974.6	3970.2	3961.2	3981.4	3965.7
12.5°	3905.3	3900.8	3905.3	3916.5	3905.3
15°	3831.4	3838.1	3826.9	3851.6	3829.2
17.5°	3732.9	3739.7	3762.0	3771.0	3768.8
20°	3652.4	3656.9	3683.7	3719.5	3681.5
22.5°	3547.2	3558.4	3571.8	3636.7	3627.8
25°	3439.8	3455.4	3506.9	3556.1	3518.1
27.5°	3327.9	3343.5	3406.2	3442.0	3437.5
30°	3207.0	3222.7	3301.0	3350.3	3327.9
32.5°	3081.7	3108.5	3193.6	3236.1	3193.6
35°	2958.6	2972.0	3054.8	3088.4	3068.3
37.5°	2795.2	2846.7	2929.5	2951.9	2916.1
40°	2672.1	2674.4	2793.0	2793.0	2790.8
42.5°	2513.2	2549.1	2627.4	2669.9	2647.5
45°	2376.7	2387.9	2488.6	2520.0	2513.2
47.5°	2226.8	2271.5	2345.4	2381.2	2363.3
50°	2079.1	2110.4	2186.5	2233.5	2215.6
52.5°	1942.6	1967.2	2045.5	2072.4	2054.5
55°	1777.0	1817.2	1882.1	1909.0	1893.3
57.5°	1633.7	1662.8	1743.4	1752.3	1743.4
60°	1483.8	1517.3	1582.2	1589.0	1571.1
62.5°	1340.5	1362.9	1421.1	1423.4	1403.2
65°	1188.4	1215.2	1255.5	1251.0	1230.9
67.5°	1038.4	1056.3	1094.4	1078.7	1056.3
70°	886.2	901.9	933.2	910.9	890.7
72.5°	738.5	749.7	776.6	743.0	718.4
75°	593.1	597.5	617.7	575.2	539.4
77.5°	449.8	454.3	465.5	423.0	382.7
80°	320.0	320.0	324.5	279.7	252.9
82.5°	201.4	201.4	199.2	165.6	149.9
85°	105.2	102.9	100.7	80.6	73.9
87.5°	38.0	38.0	31.3	29.1	31.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)