

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: P487264

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-4LO-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: P487264
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-LD4-4LO-35-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

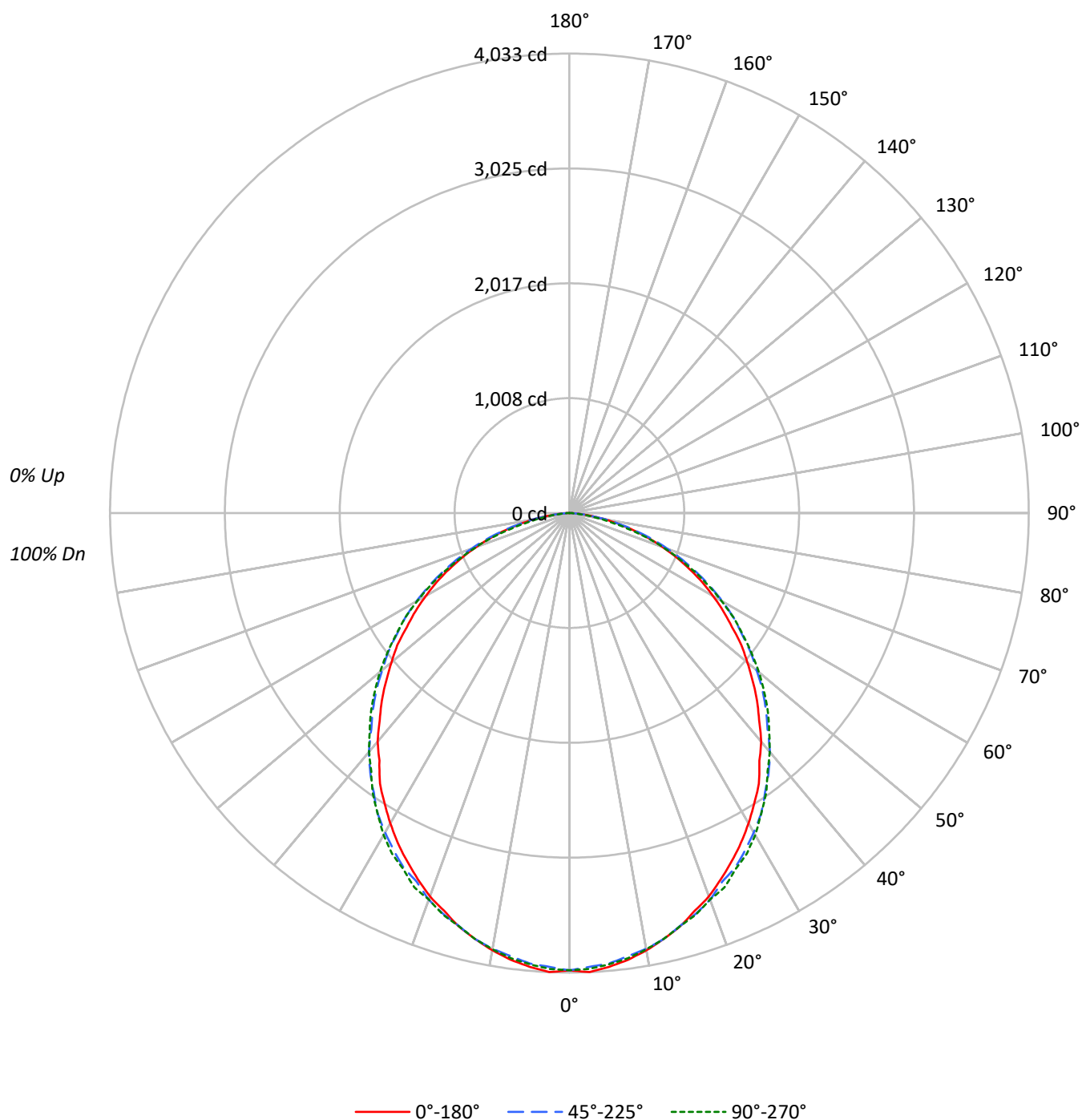
Lumens per Lamp: N/A
Luminaire Lumens: 10307.6 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 93.6
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
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°	5399	5399	5399
5°	5399	5361	5370
10°	5324	5306	5312
15°	5232	5226	5229
20°	5127	5171	5168
25°	5006	5104	5120
30°	4885	5028	5069
35°	4764	4919	4941
40°	4601	4809	4806
45°	4434	4642	4689
50°	4267	4487	4547
55°	4087	4328	4354
60°	3915	4174	4145
65°	3709	3919	3842
70°	3418	3599	3435
75°	3022	3148	2749
80°	2431	2465	1921
85°	1592	1524	1118



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.2	3.7
10°-20°	1060.6	10.3
20°-30°	1579.1	15.3
30°-40°	1858.7	18.0
40°-50°	1863.5	18.1
50°-60°	1634.2	15.9
60°-70°	1194.9	11.6
70°-80°	615.8	6.0
80°-90°	123.6	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°	3016.9	29.3
0°-40°	4875.6	47.3
0°-60°	8373.3	81.2
0°-90°	10307.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10307.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4013	4013	4013	4013	4013	
5°	3998	3971	3969	3995	3976	378
15°	3756	3763	3752	3776	3754	1057
25°	3372	3388	3438	3486	3449	1553
35°	2901	2914	2995	3028	3008	1806
45°	2330	2341	2440	2470	2464	1796
55°	1742	1782	1845	1872	1856	1564
65°	1165	1191	1231	1226	1207	1153
75°	581	586	606	564	529	616
85°	103	101	99	79	72	135
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4013.0	4013.0	4013.0	4013.0	4013.0
2.5°	4032.7	4013.0	3986.7	4008.6	4004.2
5°	3997.6	3971.3	3969.1	3995.4	3975.7
7.5°	3953.7	3949.4	3923.0	3951.5	3940.6
10°	3896.7	3892.3	3883.5	3903.3	3887.9
12.5°	3828.7	3824.3	3828.7	3839.6	3828.7
15°	3756.3	3762.9	3751.9	3776.0	3754.1
17.5°	3659.7	3666.3	3688.3	3697.0	3694.8
20°	3580.7	3585.1	3611.5	3646.6	3609.3
22.5°	3477.6	3488.6	3501.8	3565.4	3556.6
25°	3372.3	3387.7	3438.1	3486.4	3449.1
27.5°	3262.6	3278.0	3339.4	3374.5	3370.1
30°	3144.1	3159.5	3236.3	3284.5	3262.6
32.5°	3021.3	3047.6	3131.0	3172.6	3131.0
35°	2900.6	2913.7	2994.9	3027.8	3008.1
37.5°	2740.4	2790.9	2872.1	2894.0	2858.9
40°	2619.7	2621.9	2738.2	2738.2	2736.0
42.5°	2464.0	2499.1	2575.9	2617.5	2595.6
45°	2330.1	2341.1	2439.8	2470.5	2464.0
47.5°	2183.1	2227.0	2299.4	2334.5	2317.0
50°	2038.3	2069.0	2143.6	2189.7	2172.1
52.5°	1904.5	1928.6	2005.4	2031.7	2014.2
55°	1742.1	1781.6	1845.2	1871.6	1856.2
57.5°	1601.7	1630.2	1709.2	1718.0	1709.2
60°	1454.7	1487.6	1551.2	1557.8	1540.2
62.5°	1314.3	1336.2	1393.2	1395.4	1375.7
65°	1165.1	1191.4	1230.9	1226.5	1206.7
67.5°	1018.1	1035.6	1072.9	1057.5	1035.6
70°	868.9	884.2	914.9	893.0	873.2
72.5°	724.0	735.0	761.3	728.4	704.3
75°	581.4	585.8	605.6	563.9	528.8
77.5°	441.0	445.4	456.4	414.7	375.2
80°	313.8	313.8	318.1	274.3	247.9
82.5°	197.5	197.5	195.3	162.4	147.0
85°	103.1	100.9	98.7	79.0	72.4
87.5°	37.3	37.3	30.7	28.5	30.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)