

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: P487299

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-5LO-30-120-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: P487299
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-30-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

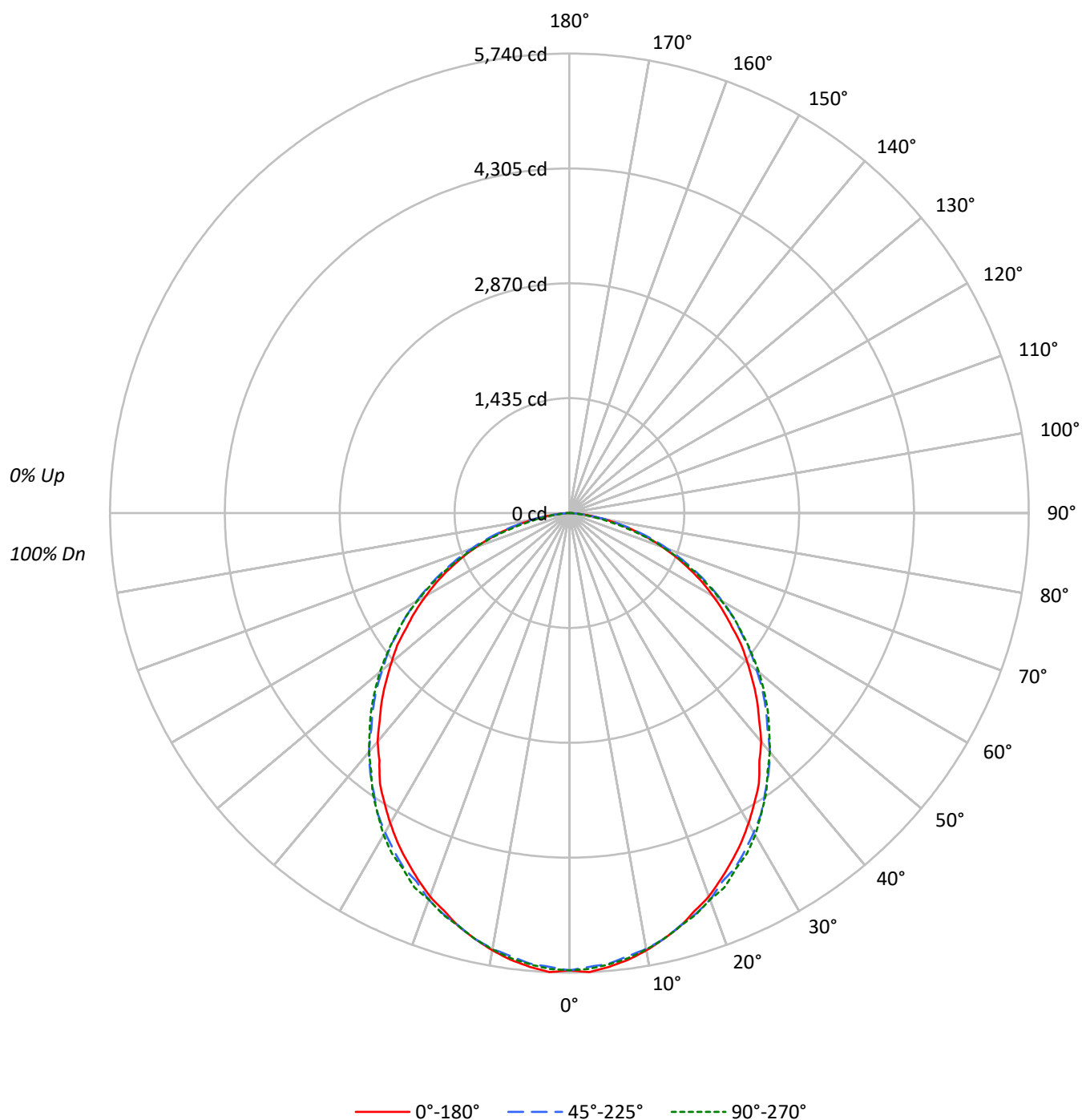
Lumens per Lamp: N/A
Luminaire Lumens: 14670.9 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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
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°	7685	7685	7685
5°	7685	7630	7643
10°	7577	7552	7560
15°	7447	7439	7443
20°	7297	7360	7356
25°	7126	7265	7288
30°	6953	7156	7215
35°	6781	7002	7032
40°	6549	6845	6840
45°	6311	6608	6673
50°	6073	6386	6471
55°	5817	6161	6197
60°	5572	5941	5899
65°	5279	5578	5468
70°	4865	5123	4890
75°	4302	4481	3912
80°	3460	3508	2734
85°	2266	2169	1592



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	536.9	3.7
10°-20°	1509.6	10.3
20°-30°	2247.5	15.3
30°-40°	2645.5	18.0
40°-50°	2652.4	18.1
50°-60°	2325.9	15.9
60°-70°	1700.8	11.6
70°-80°	876.5	6.0
80°-90°	175.9	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°	4294.0	29.3
0°-40°	6939.4	47.3
0°-60°	11917.7	81.2
0°-90°	14670.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14670.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5712	5712	5712	5712	5712	
5°	5690	5652	5649	5687	5659	539
15°	5346	5356	5340	5374	5343	1505
25°	4800	4822	4894	4962	4909	2211
35°	4128	4147	4263	4310	4281	2571
45°	3316	3332	3473	3516	3507	2556
55°	2480	2536	2626	2664	2642	2226
65°	1658	1696	1752	1746	1718	1640
75°	828	834	862	803	753	877
85°	147	144	140	112	103	192
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5711.7	5711.7	5711.7	5711.7	5711.7
2.5°	5739.8	5711.7	5674.2	5705.5	5699.2
5°	5689.9	5652.4	5649.3	5686.7	5658.6
7.5°	5627.4	5621.1	5583.7	5624.3	5608.7
10°	5546.2	5540.0	5527.5	5555.6	5533.7
12.5°	5449.4	5443.1	5449.4	5465.0	5449.4
15°	5346.3	5355.7	5340.1	5374.4	5343.2
17.5°	5208.9	5218.3	5249.5	5262.0	5258.9
20°	5096.5	5102.8	5140.2	5190.2	5137.1
22.5°	4949.7	4965.3	4984.1	5074.6	5062.2
25°	4799.8	4821.7	4893.5	4962.2	4909.1
27.5°	4643.7	4665.6	4753.0	4803.0	4796.7
30°	4475.1	4496.9	4606.2	4674.9	4643.7
32.5°	4300.2	4337.7	4456.3	4515.7	4456.3
35°	4128.4	4147.2	4262.7	4309.5	4281.4
37.5°	3900.5	3972.3	4087.8	4119.1	4069.1
40°	3728.7	3731.8	3897.3	3897.3	3894.2
42.5°	3507.0	3556.9	3666.2	3725.6	3694.3
45°	3316.5	3332.1	3472.6	3516.3	3507.0
47.5°	3107.2	3169.7	3272.8	3322.7	3297.7
50°	2901.1	2944.9	3051.0	3116.6	3091.6
52.5°	2710.6	2745.0	2854.3	2891.8	2866.8
55°	2479.6	2535.8	2626.3	2663.8	2641.9
57.5°	2279.7	2320.3	2432.7	2445.2	2432.7
60°	2070.5	2117.3	2207.9	2217.2	2192.2
62.5°	1870.6	1901.8	1983.0	1986.1	1958.0
65°	1658.2	1695.7	1751.9	1745.7	1717.6
67.5°	1449.0	1474.0	1527.1	1505.2	1474.0
70°	1236.7	1258.5	1302.2	1271.0	1242.9
72.5°	1030.5	1046.2	1083.6	1036.8	1002.4
75°	827.6	833.8	861.9	802.6	752.6
77.5°	627.7	633.9	649.6	590.2	534.0
80°	446.6	446.6	452.8	390.4	352.9
82.5°	281.1	281.1	277.9	231.1	209.2
85°	146.8	143.7	140.5	112.4	103.1
87.5°	53.1	53.1	43.7	40.6	43.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)