

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: P487331

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-6LO-20-120-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: P487331
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
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

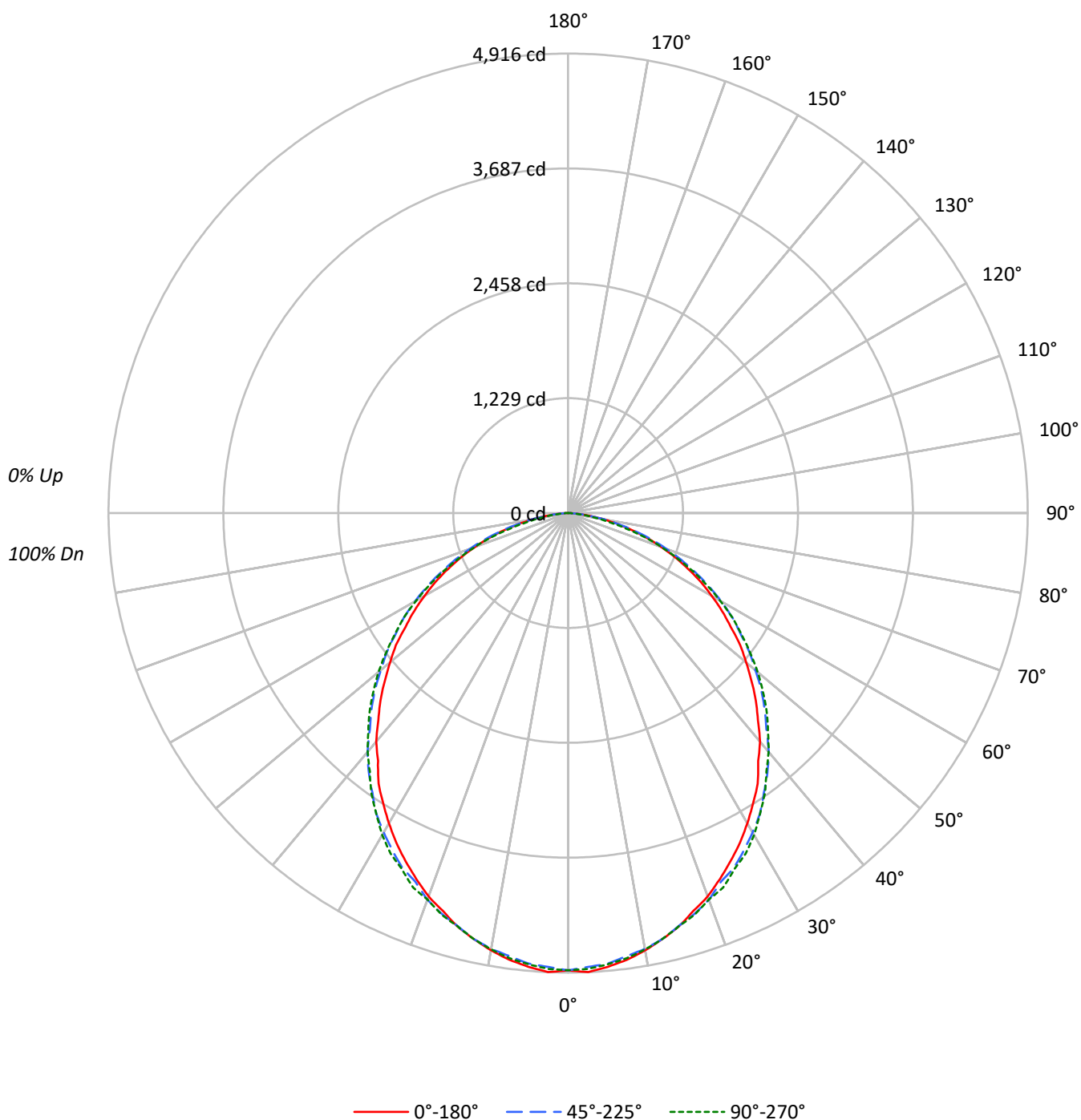
Lumens per Lamp: N/A
Luminaire Lumens: 12565.0 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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°	6582	6582	6582
5°	6582	6535	6546
10°	6490	6468	6475
15°	6378	6371	6374
20°	6250	6304	6300
25°	6103	6222	6242
30°	5955	6129	6179
35°	5808	5997	6023
40°	5609	5863	5858
45°	5405	5659	5715
50°	5201	5470	5543
55°	4982	5276	5308
60°	4772	5088	5053
65°	4521	4777	4683
70°	4166	4388	4188
75°	3685	3838	3351
80°	2964	3005	2342
85°	1941	1859	1363



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.8	3.7
10°-20°	1292.9	10.3
20°-30°	1924.9	15.3
30°-40°	2265.7	18.0
40°-50°	2271.7	18.1
50°-60°	1992.1	15.9
60°-70°	1456.6	11.6
70°-80°	750.7	6.0
80°-90°	150.6	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°	3677.6	29.3
0°-40°	5943.3	47.3
0°-60°	10207.0	81.2
0°-90°	12565.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12565.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4892	4892	4892	4892	4892	
5°	4873	4841	4838	4870	4846	461
15°	4579	4587	4574	4603	4576	1289
25°	4111	4130	4191	4250	4204	1894
35°	3536	3552	3651	3691	3667	2202
45°	2840	2854	2974	3012	3004	2189
55°	2124	2172	2249	2281	2263	1906
65°	1420	1452	1500	1495	1471	1405
75°	709	714	738	687	645	751
85°	126	123	120	96	88	164
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4891.8	4891.8	4891.8	4891.8	4891.8
2.5°	4915.9	4891.8	4859.7	4886.5	4881.1
5°	4873.1	4841.0	4838.3	4870.4	4846.4
7.5°	4819.6	4814.3	4782.2	4816.9	4803.6
10°	4750.1	4744.7	4734.0	4758.1	4739.4
12.5°	4667.2	4661.8	4667.2	4680.5	4667.2
15°	4578.9	4586.9	4573.6	4603.0	4576.2
17.5°	4461.2	4469.2	4496.0	4506.7	4504.0
20°	4364.9	4370.3	4402.4	4445.2	4399.7
22.5°	4239.2	4252.6	4268.7	4346.2	4335.5
25°	4110.9	4129.6	4191.1	4249.9	4204.5
27.5°	3977.1	3995.8	4070.7	4113.5	4108.2
30°	3832.7	3851.4	3945.0	4003.9	3977.1
32.5°	3682.9	3715.0	3816.6	3867.5	3816.6
35°	3535.8	3551.9	3650.8	3690.9	3666.9
37.5°	3340.6	3402.1	3501.0	3527.8	3485.0
40°	3193.5	3196.1	3337.9	3337.9	3335.2
42.5°	3003.6	3046.4	3140.0	3190.8	3164.0
45°	2840.4	2853.8	2974.2	3011.6	3003.6
47.5°	2661.2	2714.7	2803.0	2845.8	2824.4
50°	2484.7	2522.1	2613.1	2669.2	2647.9
52.5°	2321.5	2351.0	2444.6	2476.7	2455.3
55°	2123.6	2171.8	2249.3	2281.4	2262.7
57.5°	1952.5	1987.2	2083.5	2094.2	2083.5
60°	1773.3	1813.4	1890.9	1899.0	1877.6
62.5°	1602.1	1628.8	1698.4	1701.0	1677.0
65°	1420.2	1452.3	1500.4	1495.1	1471.0
67.5°	1241.0	1262.4	1307.9	1289.2	1262.4
70°	1059.1	1077.9	1115.3	1088.6	1064.5
72.5°	882.6	896.0	928.1	888.0	858.5
75°	708.8	714.1	738.2	687.4	644.6
77.5°	537.6	542.9	556.3	505.5	457.4
80°	382.5	382.5	387.8	334.3	302.2
82.5°	240.7	240.7	238.0	197.9	179.2
85°	125.7	123.0	120.4	96.3	88.3
87.5°	45.5	45.5	37.4	34.8	37.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)