

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: P486024

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-6HI-27-120-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: P486024
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-24-2-INS-A125-LD4-6HI-27-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

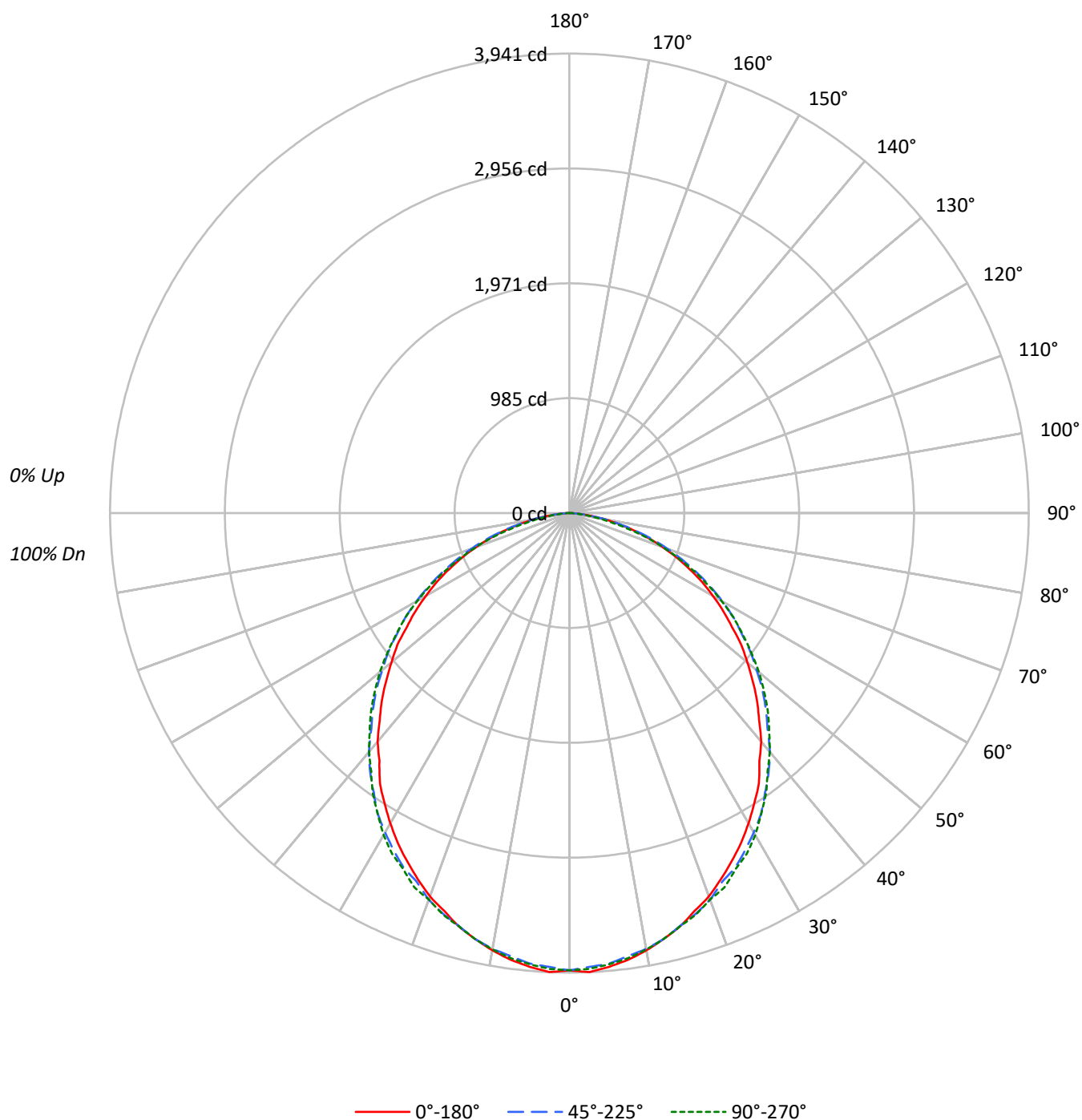
Lumens per Lamp: N/A
Luminaire Lumens: 10072.9 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 132
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°	10553	10553	10553
5°	10553	10477	10495
10°	10405	10370	10382
15°	10226	10215	10220
20°	10021	10106	10100
25°	9785	9976	10008
30°	9547	9827	9907
35°	9312	9614	9657
40°	8993	9400	9392
45°	8666	9074	9164
50°	8339	8770	8887
55°	7987	8460	8510
60°	7651	8159	8101
65°	7249	7659	7509
70°	6681	7035	6714
75°	5908	6153	5372
80°	4751	4818	3755
85°	3112	2979	2186



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.6	3.7
10°-20°	1036.5	10.3
20°-30°	1543.1	15.3
30°-40°	1816.3	18.0
40°-50°	1821.1	18.1
50°-60°	1597.0	15.9
60°-70°	1167.8	11.6
70°-80°	601.8	6.0
80°-90°	120.8	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°	2948.2	29.3
0°-40°	4764.5	47.3
0°-60°	8182.6	81.2
0°-90°	10072.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10072.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3922	3922	3922	3922	3922	
5°	3907	3881	3879	3904	3885	370
15°	3671	3677	3666	3690	3669	1033
25°	3296	3310	3360	3407	3371	1518
35°	2834	2847	2927	2959	2940	1765
45°	2277	2288	2384	2414	2408	1755
55°	1702	1741	1803	1829	1814	1528
65°	1138	1164	1203	1199	1179	1126
75°	568	572	592	551	517	602
85°	101	99	96	77	71	131
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3921.6	3921.6	3921.6	3921.6	3921.6
2.5°	3940.9	3921.6	3895.9	3917.3	3913.0
5°	3906.6	3880.9	3878.7	3904.5	3885.2
7.5°	3863.7	3859.4	3833.7	3861.6	3850.8
10°	3808.0	3803.7	3795.1	3814.4	3799.4
12.5°	3741.5	3737.2	3741.5	3752.2	3741.5
15°	3670.7	3677.2	3666.5	3690.0	3668.6
17.5°	3576.4	3582.8	3604.3	3612.9	3610.7
20°	3499.2	3503.5	3529.2	3563.5	3527.1
22.5°	3398.4	3409.2	3422.0	3484.2	3475.6
25°	3295.5	3310.5	3359.8	3407.0	3370.6
27.5°	3188.3	3203.3	3263.4	3297.7	3293.4
30°	3072.5	3087.5	3162.6	3209.8	3188.3
32.5°	2952.5	2978.2	3059.7	3100.4	3059.7
35°	2834.5	2847.4	2926.7	2958.9	2939.6
37.5°	2678.0	2727.3	2806.7	2828.1	2793.8
40°	2560.1	2562.2	2675.9	2675.9	2673.7
42.5°	2407.9	2442.2	2517.2	2557.9	2536.5
45°	2277.1	2287.8	2384.3	2414.3	2407.9
47.5°	2133.4	2176.3	2247.0	2281.3	2264.2
50°	1991.9	2021.9	2094.8	2139.8	2122.7
52.5°	1861.1	1884.7	1959.7	1985.5	1968.3
55°	1702.4	1741.0	1803.2	1828.9	1813.9
57.5°	1565.2	1593.1	1670.3	1678.9	1670.3
60°	1421.6	1453.7	1515.9	1522.3	1505.2
62.5°	1284.3	1305.8	1361.5	1363.7	1344.4
65°	1138.5	1164.3	1202.9	1198.6	1179.3
67.5°	994.9	1012.0	1048.5	1033.5	1012.0
70°	849.1	864.1	894.1	872.7	853.4
72.5°	707.6	718.3	744.0	711.8	688.3
75°	568.2	572.5	591.8	551.0	516.7
77.5°	431.0	435.3	446.0	405.2	366.6
80°	306.6	306.6	310.9	268.0	242.3
82.5°	193.0	193.0	190.8	158.7	143.7
85°	100.8	98.6	96.5	77.2	70.8
87.5°	36.5	36.5	30.0	27.9	30.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)