

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: P486021

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-5STD-50-120-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: P486021
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-LD4-5STD-50-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

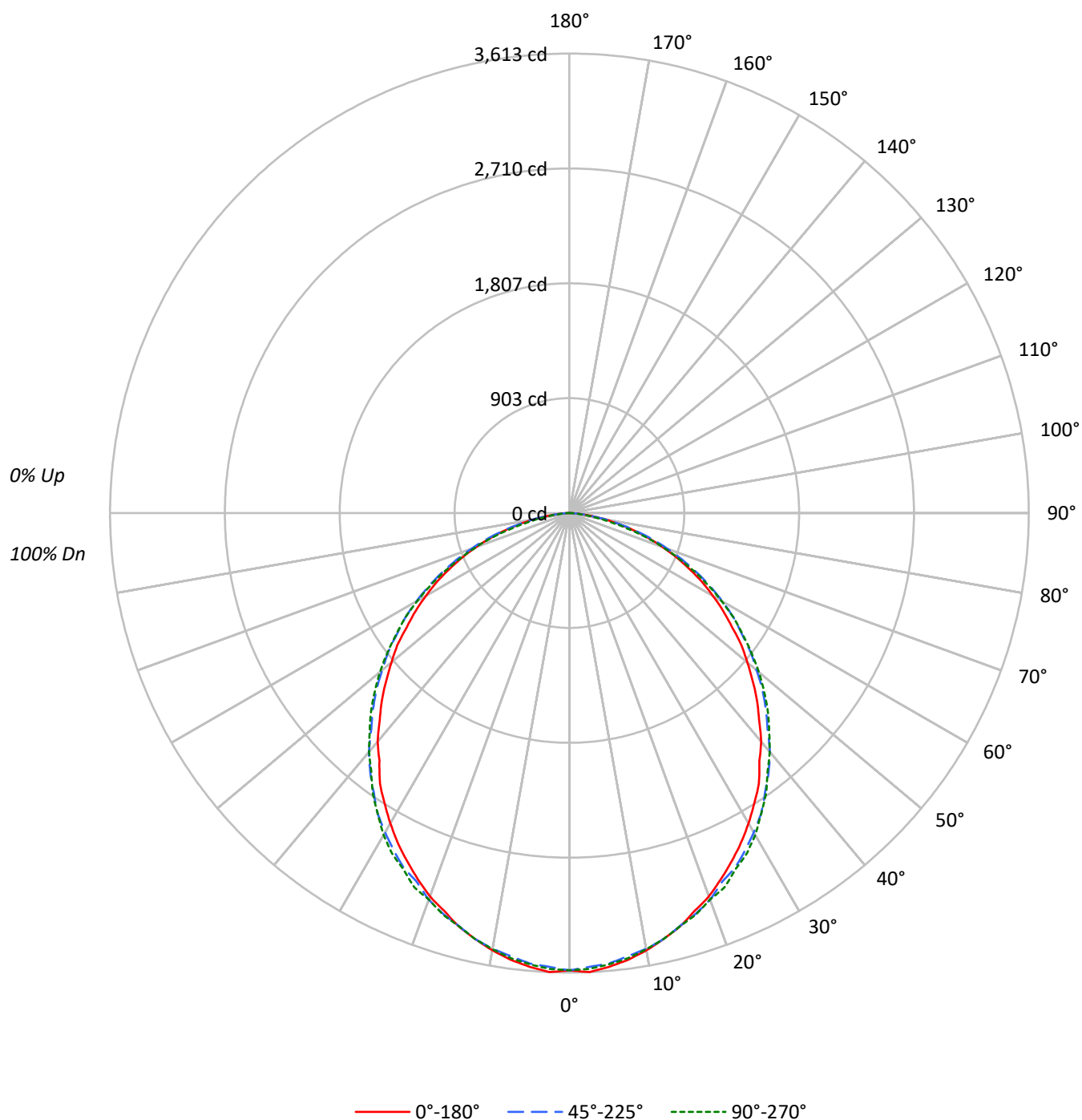
Lumens per Lamp: N/A
Luminaire Lumens: 9234.1 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 83.2
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°	9674	9674	9674
5°	9674	9605	9621
10°	9539	9507	9517
15°	9375	9364	9369
20°	9186	9265	9259
25°	8970	9145	9174
30°	8752	9009	9082
35°	8536	8814	8853
40°	8244	8617	8610
45°	7944	8318	8400
50°	7644	8040	8146
55°	7322	7756	7802
60°	7014	7479	7426
65°	6646	7021	6884
70°	6124	6449	6155
75°	5416	5640	4925
80°	4356	4417	3442
85°	2853	2732	2004



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.9	3.7
10°-20°	950.2	10.3
20°-30°	1414.6	15.3
30°-40°	1665.1	18.0
40°-50°	1669.5	18.1
50°-60°	1464.0	15.9
60°-70°	1070.5	11.6
70°-80°	551.7	6.0
80°-90°	110.7	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°	2702.7	29.3
0°-40°	4367.8	47.3
0°-60°	7501.2	81.2
0°-90°	9234.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9234.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3595	3595	3595	3595	3595	
5°	3581	3558	3556	3579	3562	339
15°	3365	3371	3361	3383	3363	947
25°	3021	3035	3080	3123	3090	1392
35°	2598	2610	2683	2712	2695	1618
45°	2087	2097	2186	2213	2207	1609
55°	1561	1596	1653	1677	1663	1401
65°	1044	1067	1103	1099	1081	1032
75°	521	525	542	505	474	552
85°	92	90	88	71	65	121
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3595.0	3595.0	3595.0	3595.0	3595.0
2.5°	3612.7	3595.0	3571.5	3591.1	3587.2
5°	3581.3	3557.7	3555.7	3579.3	3561.6
7.5°	3542.0	3538.0	3514.5	3540.0	3530.2
10°	3490.9	3486.9	3479.1	3496.8	3483.0
12.5°	3429.9	3426.0	3429.9	3439.8	3429.9
15°	3365.1	3371.0	3361.1	3382.8	3363.1
17.5°	3278.6	3284.5	3304.1	3312.0	3310.0
20°	3207.8	3211.8	3235.3	3266.8	3233.4
22.5°	3115.4	3125.3	3137.1	3194.1	3186.2
25°	3021.1	3034.9	3080.1	3123.3	3089.9
27.5°	2922.8	2936.6	2991.6	3023.1	3019.1
30°	2816.7	2830.4	2899.2	2942.5	2922.8
32.5°	2706.6	2730.2	2804.9	2842.2	2804.9
35°	2598.5	2610.3	2683.0	2712.5	2694.8
37.5°	2455.0	2500.2	2572.9	2592.6	2561.1
40°	2346.9	2348.9	2453.0	2453.0	2451.1
42.5°	2207.3	2238.8	2307.6	2344.9	2325.3
45°	2087.4	2097.3	2185.7	2213.2	2207.3
47.5°	1955.8	1995.1	2059.9	2091.4	2075.7
50°	1826.0	1853.5	1920.4	1961.6	1945.9
52.5°	1706.1	1727.7	1796.5	1820.1	1804.4
55°	1560.7	1596.0	1653.1	1676.6	1662.9
57.5°	1434.9	1460.4	1531.2	1539.0	1531.2
60°	1303.2	1332.7	1389.7	1395.6	1379.8
62.5°	1177.4	1197.0	1248.1	1250.1	1232.4
65°	1043.7	1067.3	1102.7	1098.8	1081.1
67.5°	912.0	927.8	961.2	947.4	927.8
70°	778.4	792.1	819.6	800.0	782.3
72.5°	648.6	658.5	682.1	652.6	631.0
75°	520.9	524.8	542.5	505.2	473.7
77.5°	395.1	399.0	408.8	371.5	336.1
80°	281.1	281.1	285.0	245.7	222.1
82.5°	176.9	176.9	174.9	145.5	131.7
85°	92.4	90.4	88.5	70.8	64.9
87.5°	33.4	33.4	27.5	25.6	27.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)