

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: P485155

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-2STD-40-120-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: P485155
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-12-4-INS-A125-LD4-2STD-40-120-EDD
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

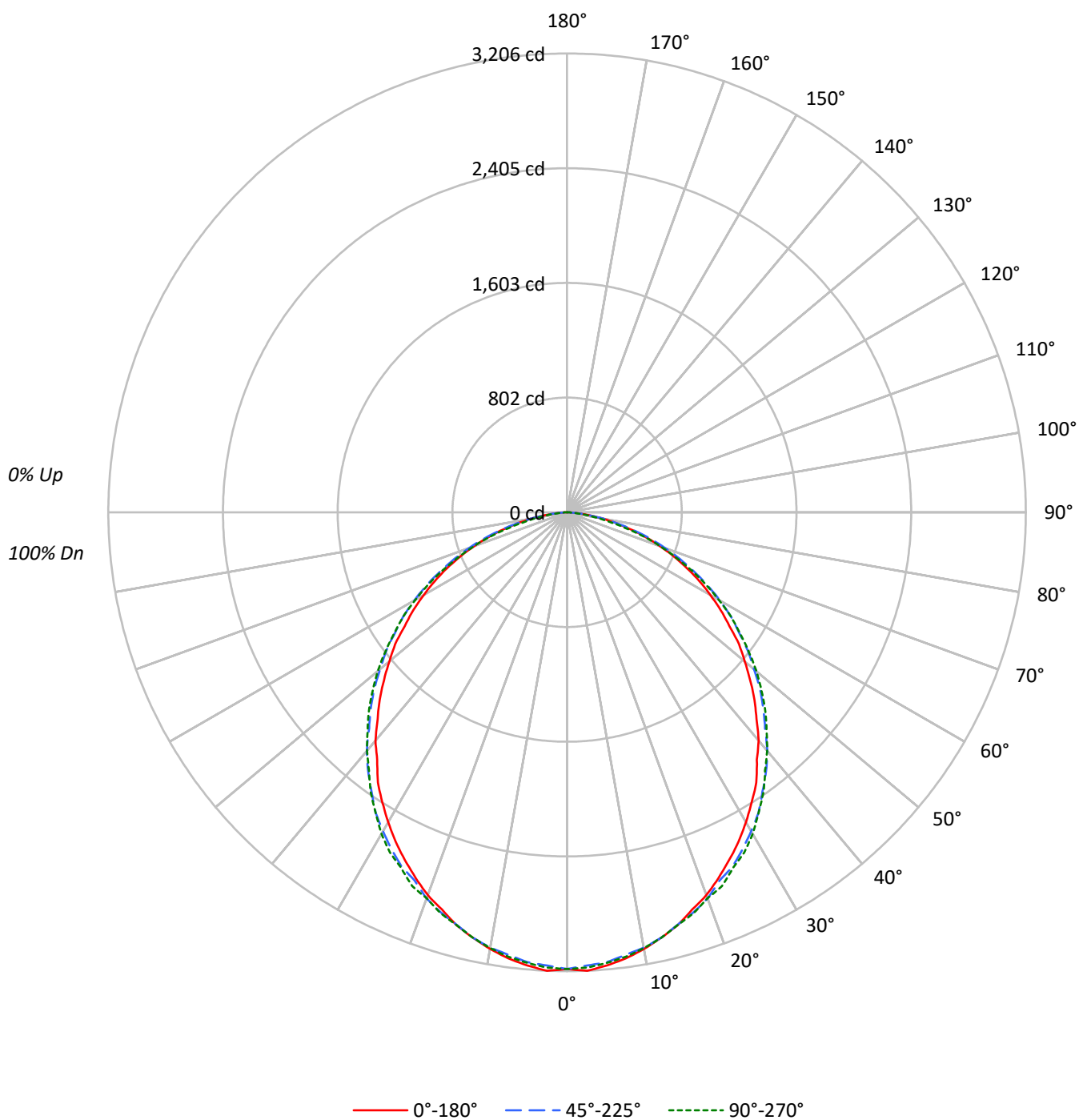
Lumens per Lamp: N/A
Luminaire Lumens: 8195.2 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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					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°	8586	8586	8586
5°	8586	8524	8538
10°	8466	8437	8446
15°	8320	8310	8315
20°	8153	8222	8218
25°	7961	8116	8142
30°	7768	7995	8060
35°	7576	7822	7857
40°	7317	7648	7641
45°	7050	7382	7455
50°	6785	7135	7230
55°	6498	6883	6924
60°	6225	6638	6591
65°	5898	6231	6109
70°	5435	5723	5463
75°	4807	5006	4371
80°	3866	3919	3054
85°	2532	2424	1778



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.9	3.7
10°-20°	843.3	10.3
20°-30°	1255.5	15.3
30°-40°	1477.8	18.0
40°-50°	1481.6	18.1
50°-60°	1299.3	15.9
60°-70°	950.1	11.6
70°-80°	489.6	6.0
80°-90°	98.2	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°	2398.6	29.3
0°-40°	3876.4	47.3
0°-60°	6657.3	81.2
0°-90°	8195.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8195.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3191	3191	3191	3191	3191	
5°	3178	3157	3156	3177	3161	301
15°	2986	2992	2983	3002	2985	840
25°	2681	2693	2734	2772	2742	1235
35°	2306	2317	2381	2407	2392	1436
45°	1853	1861	1940	1964	1959	1428
55°	1385	1416	1467	1488	1476	1243
65°	926	947	979	975	959	916
75°	462	466	482	448	420	490
85°	82	80	78	63	58	107
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3190.6	3190.6	3190.6	3190.6	3190.6
2.5°	3206.3	3190.6	3169.6	3187.1	3183.6
5°	3178.4	3157.4	3155.7	3176.6	3160.9
7.5°	3143.5	3140.0	3119.1	3141.7	3133.0
10°	3098.1	3094.6	3087.7	3103.4	3091.1
12.5°	3044.0	3040.6	3044.0	3052.8	3044.0
15°	2986.5	2991.7	2983.0	3002.2	2984.7
17.5°	2909.7	2915.0	2932.4	2939.4	2937.6
20°	2846.9	2850.4	2871.3	2899.3	2869.6
22.5°	2764.9	2773.7	2784.1	2834.7	2827.7
25°	2681.2	2693.4	2733.5	2771.9	2742.3
27.5°	2594.0	2606.2	2655.0	2682.9	2679.5
30°	2499.8	2512.0	2573.0	2611.4	2594.0
32.5°	2402.1	2423.0	2489.3	2522.5	2489.3
35°	2306.1	2316.6	2381.2	2407.3	2391.6
37.5°	2178.8	2218.9	2283.5	2300.9	2273.0
40°	2082.9	2084.6	2177.1	2177.1	2175.3
42.5°	1959.0	1986.9	2048.0	2081.1	2063.7
45°	1852.6	1861.3	1939.8	1964.2	1959.0
47.5°	1735.7	1770.6	1828.2	1856.1	1842.1
50°	1620.6	1645.0	1704.3	1740.9	1727.0
52.5°	1514.2	1533.4	1594.4	1615.3	1601.4
55°	1385.1	1416.5	1467.1	1488.0	1475.8
57.5°	1273.4	1296.1	1358.9	1365.9	1358.9
60°	1156.6	1182.7	1233.3	1238.6	1224.6
62.5°	1044.9	1062.4	1107.7	1109.5	1093.8
65°	926.3	947.2	978.6	975.1	959.4
67.5°	809.4	823.4	853.0	840.8	823.4
70°	690.8	703.0	727.4	710.0	694.3
72.5°	575.7	584.4	605.3	579.2	560.0
75°	462.3	465.8	481.5	448.3	420.4
77.5°	350.6	354.1	362.8	329.7	298.3
80°	249.5	249.5	252.9	218.1	197.1
82.5°	157.0	157.0	155.3	129.1	116.9
85°	82.0	80.2	78.5	62.8	57.6
87.5°	29.7	29.7	24.4	22.7	24.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)