

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: P485130

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-2HI-40-120-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: P485130
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-LD4-2HI-40-120-EDD-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

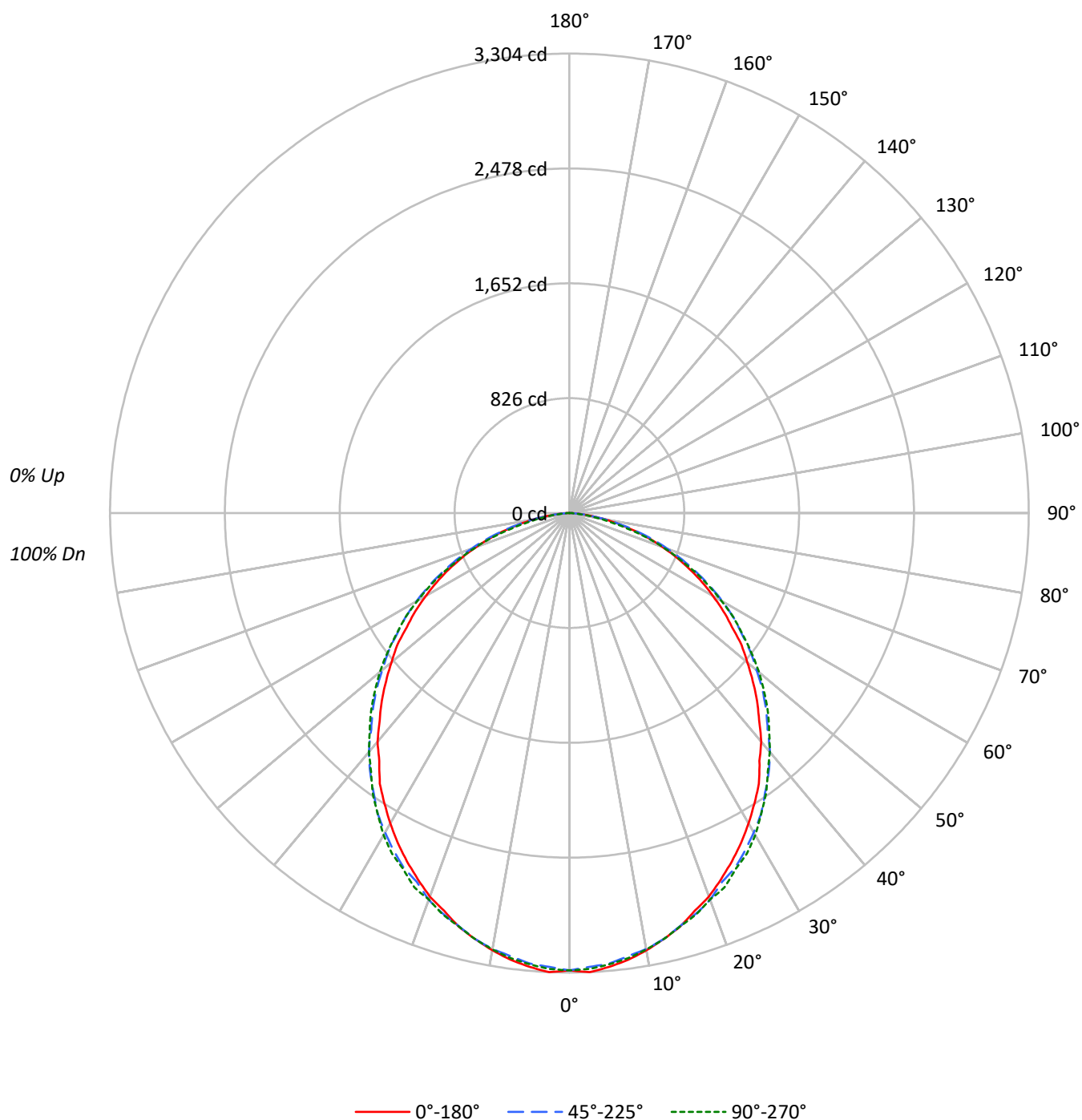
Lumens per Lamp: N/A
Luminaire Lumens: 8446.0 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 88
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	0		
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71		
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60		
4	83	72	63	57	81	70	62	56	68	61	55	66	59	55	63	58	54	52		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39		
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31		
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8848	8848	8848
5°	8848	8785	8800
10°	8725	8695	8705
15°	8575	8565	8570
20°	8402	8474	8469
25°	8205	8365	8391
30°	8005	8240	8307
35°	7808	8062	8097
40°	7541	7882	7875
45°	7266	7608	7684
50°	6992	7353	7451
55°	6697	7094	7136
60°	6415	6841	6793
65°	6078	6422	6296
70°	5601	5899	5629
75°	4953	5159	4505
80°	3984	4040	3149
85°	2609	2498	1831



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.1	3.7
10°-20°	869.1	10.3
20°-30°	1293.9	15.3
30°-40°	1523.0	18.0
40°-50°	1527.0	18.1
50°-60°	1339.0	15.9
60°-70°	979.1	11.6
70°-80°	504.6	6.0
80°-90°	101.2	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°	2472.0	29.3
0°-40°	3995.0	47.3
0°-60°	6861.0	81.2
0°-90°	8446.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8446.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3288	3288	3288	3288	3288	
5°	3276	3254	3252	3274	3258	310
15°	3078	3083	3074	3094	3076	866
25°	2763	2776	2817	2857	2826	1273
35°	2377	2388	2454	2481	2465	1480
45°	1909	1918	1999	2024	2019	1471
55°	1428	1460	1512	1534	1521	1281
65°	955	976	1009	1005	989	944
75°	476	480	496	462	433	505
85°	84	83	81	65	59	110
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3288.2	3288.2	3288.2	3288.2	3288.2
2.5°	3304.4	3288.2	3266.6	3284.6	3281.0
5°	3275.6	3254.1	3252.3	3273.8	3257.7
7.5°	3239.7	3236.1	3214.5	3237.9	3228.9
10°	3192.9	3189.3	3182.1	3198.3	3185.7
12.5°	3137.2	3133.6	3137.2	3146.2	3137.2
15°	3077.9	3083.3	3074.3	3094.1	3076.1
17.5°	2998.8	3004.2	3022.1	3029.3	3027.5
20°	2934.0	2937.6	2959.2	2988.0	2957.4
22.5°	2849.5	2858.5	2869.3	2921.5	2914.3
25°	2763.3	2775.8	2817.2	2856.7	2826.2
27.5°	2673.4	2685.9	2736.3	2765.1	2761.5
30°	2576.3	2588.9	2651.8	2691.3	2673.4
32.5°	2475.6	2497.2	2565.5	2599.7	2565.5
35°	2376.7	2387.5	2454.0	2481.0	2464.8
37.5°	2245.5	2286.8	2353.3	2371.3	2342.6
40°	2146.6	2148.4	2243.7	2243.7	2241.9
42.5°	2019.0	2047.7	2110.6	2144.8	2126.8
45°	1909.3	1918.3	1999.2	2024.3	2019.0
47.5°	1788.8	1824.8	1884.1	1912.9	1898.5
50°	1670.2	1695.3	1756.5	1794.2	1779.8
52.5°	1560.5	1580.3	1643.2	1664.8	1650.4
55°	1427.5	1459.8	1512.0	1533.5	1521.0
57.5°	1312.4	1335.8	1400.5	1407.7	1400.5
60°	1192.0	1218.9	1271.1	1276.5	1262.1
62.5°	1076.9	1094.9	1141.6	1143.4	1127.2
65°	954.6	976.2	1008.6	1005.0	988.8
67.5°	834.2	848.6	879.1	866.6	848.6
70°	711.9	724.5	749.7	731.7	715.5
72.5°	593.3	602.3	623.8	596.9	577.1
75°	476.4	480.0	496.2	462.0	433.3
77.5°	361.4	365.0	373.9	339.8	307.4
80°	257.1	257.1	260.7	224.7	203.2
82.5°	161.8	161.8	160.0	133.0	120.5
85°	84.5	82.7	80.9	64.7	59.3
87.5°	30.6	30.6	25.2	23.4	25.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)