

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: P485183

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-3STD-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: P485183
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-LD4-3STD-20-120-EDD
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

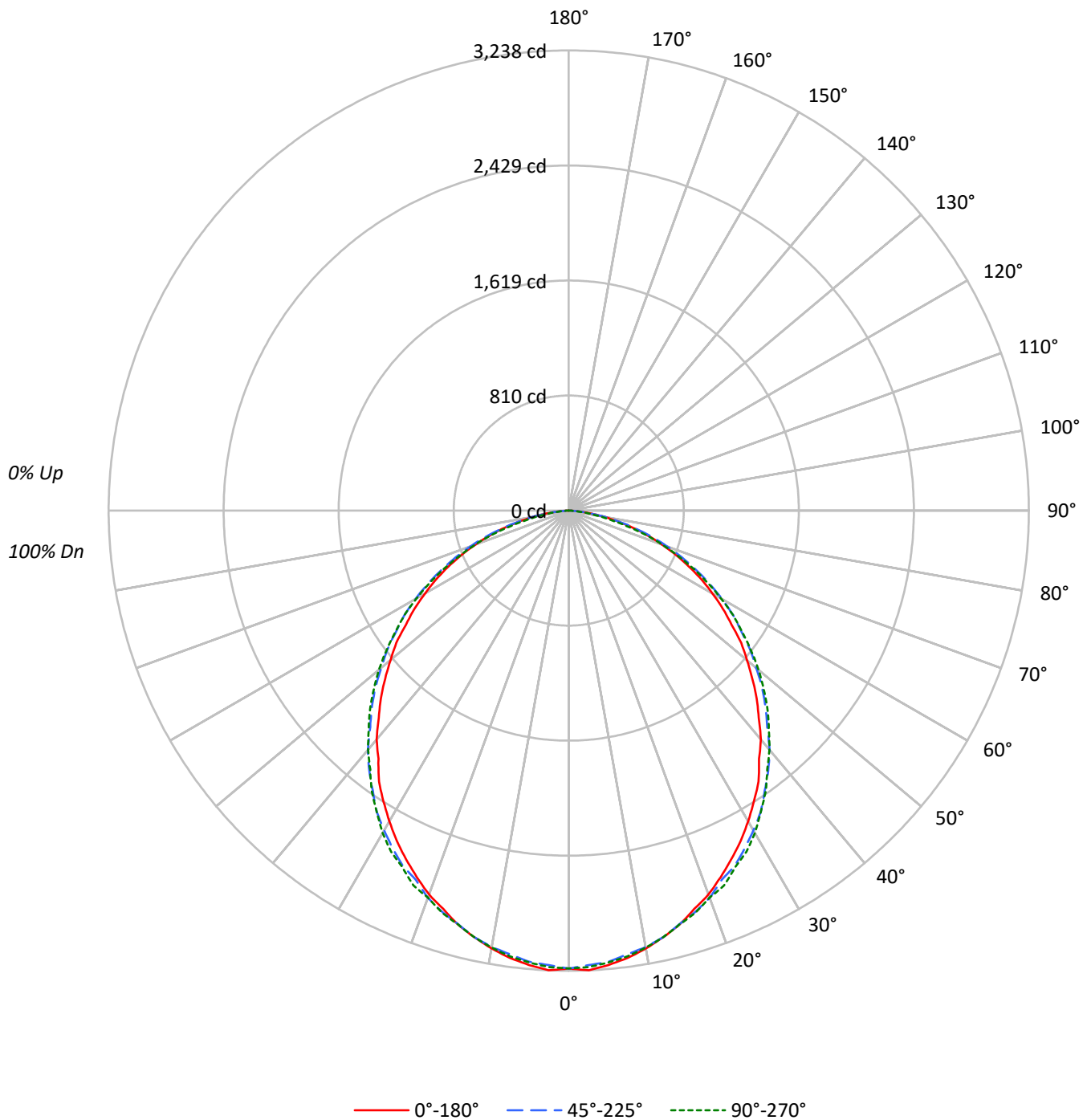
Lumens per Lamp: N/A
Luminaire Lumens: 8276.4 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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°	8671	8671	8671
5°	8671	8609	8623
10°	8549	8520	8530
15°	8403	8393	8398
20°	8233	8304	8299
25°	8040	8197	8223
30°	7844	8074	8140
35°	7651	7900	7934
40°	7389	7723	7717
45°	7120	7455	7529
50°	6851	7206	7302
55°	6563	6951	6992
60°	6286	6703	6656
65°	5957	6293	6169
70°	5489	5780	5517
75°	4854	5055	4415
80°	3904	3958	3085
85°	2556	2448	1794



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.9	3.7
10°-20°	851.6	10.3
20°-30°	1267.9	15.3
30°-40°	1492.4	18.0
40°-50°	1496.3	18.1
50°-60°	1312.1	15.9
60°-70°	959.5	11.6
70°-80°	494.5	6.0
80°-90°	99.2	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°	2422.4	29.3
0°-40°	3914.8	47.3
0°-60°	6723.2	81.2
0°-90°	8276.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8276.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3222	3222	3222	3222	3222	
5°	3210	3189	3187	3208	3192	304
15°	3016	3021	3012	3032	3014	849
25°	2708	2720	2761	2799	2769	1247
35°	2329	2340	2405	2431	2415	1450
45°	1871	1880	1959	1984	1978	1442
55°	1399	1430	1482	1503	1490	1256
65°	936	957	988	985	969	925
75°	467	470	486	453	425	495
85°	83	81	79	63	58	108
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3222.2	3222.2	3222.2	3222.2	3222.2
2.5°	3238.0	3222.2	3201.0	3218.7	3215.1
5°	3209.9	3188.7	3187.0	3208.1	3192.2
7.5°	3174.6	3171.1	3150.0	3172.9	3164.1
10°	3128.8	3125.3	3118.2	3134.1	3121.8
12.5°	3074.2	3070.7	3074.2	3083.0	3074.2
15°	3016.1	3021.4	3012.5	3031.9	3014.3
17.5°	2938.6	2943.8	2961.5	2968.5	2966.7
20°	2875.1	2878.7	2899.8	2928.0	2898.0
22.5°	2792.3	2801.1	2811.7	2862.8	2855.8
25°	2707.8	2720.1	2760.6	2799.4	2769.4
27.5°	2619.7	2632.0	2681.3	2709.5	2706.0
30°	2524.5	2536.9	2598.5	2637.3	2619.7
32.5°	2425.9	2447.0	2514.0	2547.4	2514.0
35°	2329.0	2339.6	2404.7	2431.2	2415.3
37.5°	2200.4	2240.9	2306.1	2323.7	2295.5
40°	2103.5	2105.3	2198.6	2198.6	2196.9
42.5°	1978.4	2006.6	2068.3	2101.7	2084.1
45°	1870.9	1879.8	1959.0	1983.7	1978.4
47.5°	1752.9	1788.1	1846.3	1874.5	1860.4
50°	1636.6	1661.3	1721.2	1758.2	1744.1
52.5°	1529.2	1548.6	1610.2	1631.4	1617.3
55°	1398.8	1430.5	1481.6	1502.7	1490.4
57.5°	1286.1	1309.0	1372.4	1379.4	1372.4
60°	1168.0	1194.4	1245.5	1250.8	1236.7
62.5°	1055.3	1072.9	1118.7	1120.5	1104.6
65°	935.5	956.6	988.3	984.8	968.9
67.5°	817.4	831.5	861.5	849.1	831.5
70°	697.6	710.0	734.6	717.0	701.2
72.5°	581.4	590.2	611.3	584.9	565.5
75°	466.9	470.4	486.2	452.8	424.6
77.5°	354.1	357.6	366.4	333.0	301.3
80°	251.9	251.9	255.4	220.2	199.1
82.5°	158.6	158.6	156.8	130.4	118.0
85°	82.8	81.0	79.3	63.4	58.1
87.5°	29.9	29.9	24.7	22.9	24.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)