

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: P485127

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-2HI-30-120-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: P485127
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-30-120-EDD
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

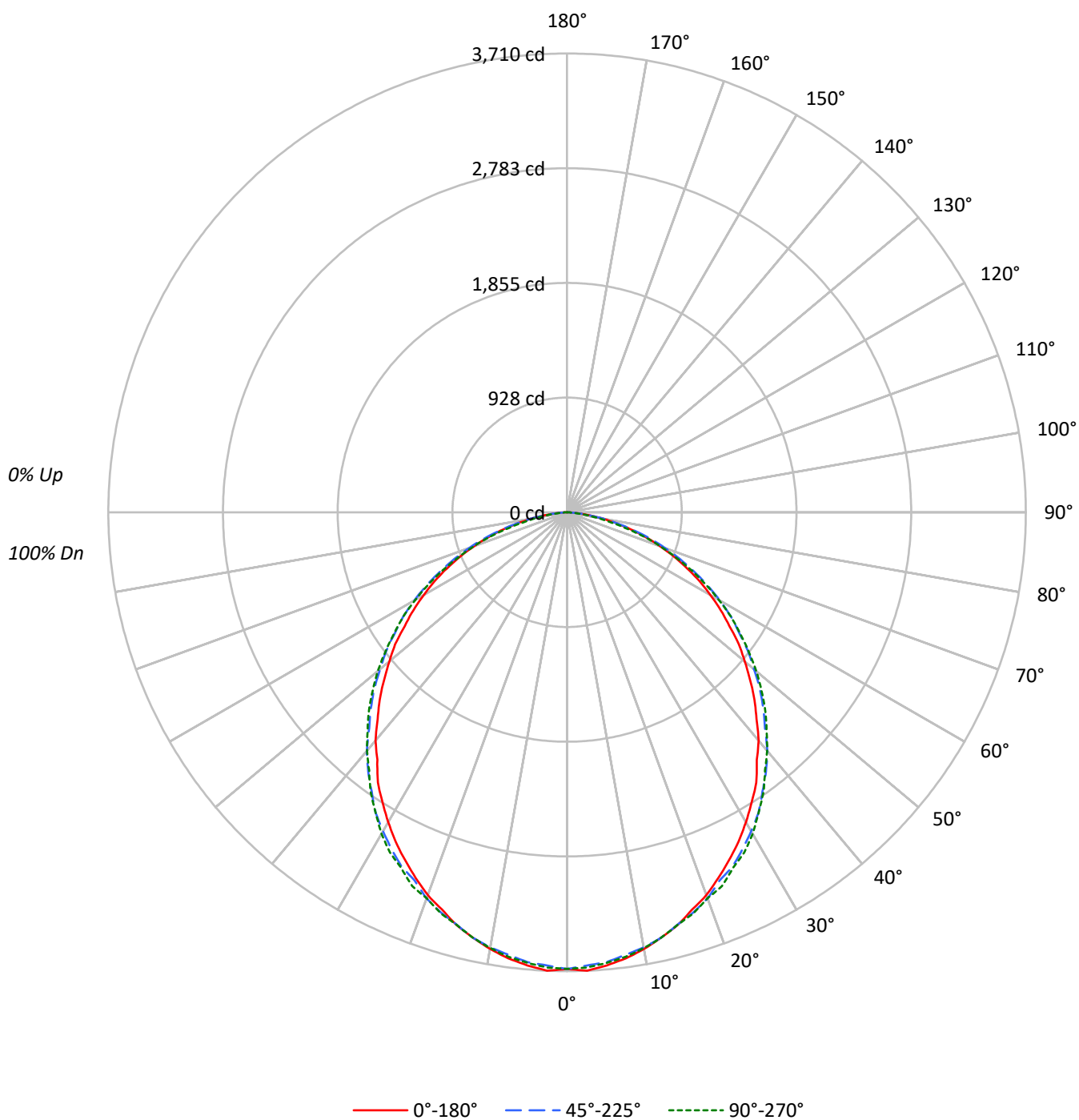
Lumens per Lamp: N/A
Luminaire Lumens: 9482.4 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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				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°	9934	9934	9934
5°	9934	9863	9880
10°	9795	9762	9773
15°	9627	9616	9621
20°	9433	9514	9508
25°	9211	9391	9421
30°	8987	9251	9326
35°	8766	9051	9091
40°	8466	8849	8842
45°	8158	8542	8626
50°	7850	8256	8365
55°	7519	7964	8011
60°	7202	7680	7626
65°	6825	7210	7068
70°	6289	6622	6320
75°	5561	5792	5057
80°	4472	4536	3535
85°	2930	2803	2056



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.0	3.7
10°-20°	975.7	10.3
20°-30°	1452.7	15.3
30°-40°	1709.9	18.0
40°-50°	1714.4	18.1
50°-60°	1503.3	15.9
60°-70°	1099.3	11.6
70°-80°	566.5	6.0
80°-90°	113.7	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°	2775.4	29.3
0°-40°	4485.2	47.3
0°-60°	7702.9	81.2
0°-90°	9482.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9482.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3692	3692	3692	3692	3692	
5°	3678	3653	3651	3676	3657	348
15°	3456	3462	3452	3474	3454	973
25°	3102	3116	3163	3207	3173	1429
35°	2668	2680	2755	2785	2767	1662
45°	2144	2154	2244	2273	2267	1652
55°	1603	1639	1698	1722	1708	1439
65°	1072	1096	1132	1128	1110	1060
75°	535	539	557	519	486	567
85°	95	93	91	73	67	124
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3691.7	3691.7	3691.7	3691.7	3691.7
2.5°	3709.9	3691.7	3667.5	3687.7	3683.6
5°	3677.6	3653.4	3651.3	3675.6	3657.4
7.5°	3637.2	3633.2	3609.0	3635.2	3625.1
10°	3584.7	3580.7	3572.6	3590.8	3576.7
12.5°	3522.2	3518.1	3522.2	3532.3	3522.2
15°	3455.6	3461.6	3451.5	3473.7	3453.5
17.5°	3366.7	3372.8	3393.0	3401.1	3399.0
20°	3294.1	3298.1	3322.3	3354.6	3320.3
22.5°	3199.2	3209.3	3221.4	3280.0	3271.9
25°	3102.3	3116.5	3162.9	3207.3	3173.0
27.5°	3001.4	3015.5	3072.1	3104.3	3100.3
30°	2892.4	2906.5	2977.2	3021.6	3001.4
32.5°	2779.4	2803.6	2880.3	2918.7	2880.3
35°	2668.4	2680.5	2755.2	2785.4	2767.3
37.5°	2521.0	2567.4	2642.1	2662.3	2630.0
40°	2410.0	2412.0	2519.0	2519.0	2517.0
42.5°	2266.7	2299.0	2369.6	2408.0	2387.8
45°	2143.6	2153.7	2244.5	2272.8	2266.7
47.5°	2008.3	2048.7	2115.3	2147.6	2131.5
50°	1875.1	1903.4	1972.0	2014.4	1998.2
52.5°	1752.0	1774.2	1844.8	1869.1	1852.9
55°	1602.6	1639.0	1697.5	1721.7	1707.6
57.5°	1473.5	1499.7	1572.4	1580.4	1572.4
60°	1338.2	1368.5	1427.0	1433.1	1416.9
62.5°	1209.0	1229.2	1281.7	1283.7	1265.6
65°	1071.8	1096.0	1132.3	1128.3	1110.1
67.5°	936.6	952.7	987.0	972.9	952.7
70°	799.3	813.4	841.7	821.5	803.3
72.5°	666.1	676.2	700.4	670.1	647.9
75°	534.9	538.9	557.1	518.7	486.4
77.5°	405.7	409.7	419.8	381.5	345.2
80°	288.6	288.6	292.7	252.3	228.1
82.5°	181.7	181.7	179.6	149.4	135.2
85°	94.9	92.8	90.8	72.7	66.6
87.5°	34.3	34.3	28.3	26.2	28.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)