

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: P485132

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-2HI-50-120-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: P485132
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-50-120-EDD-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

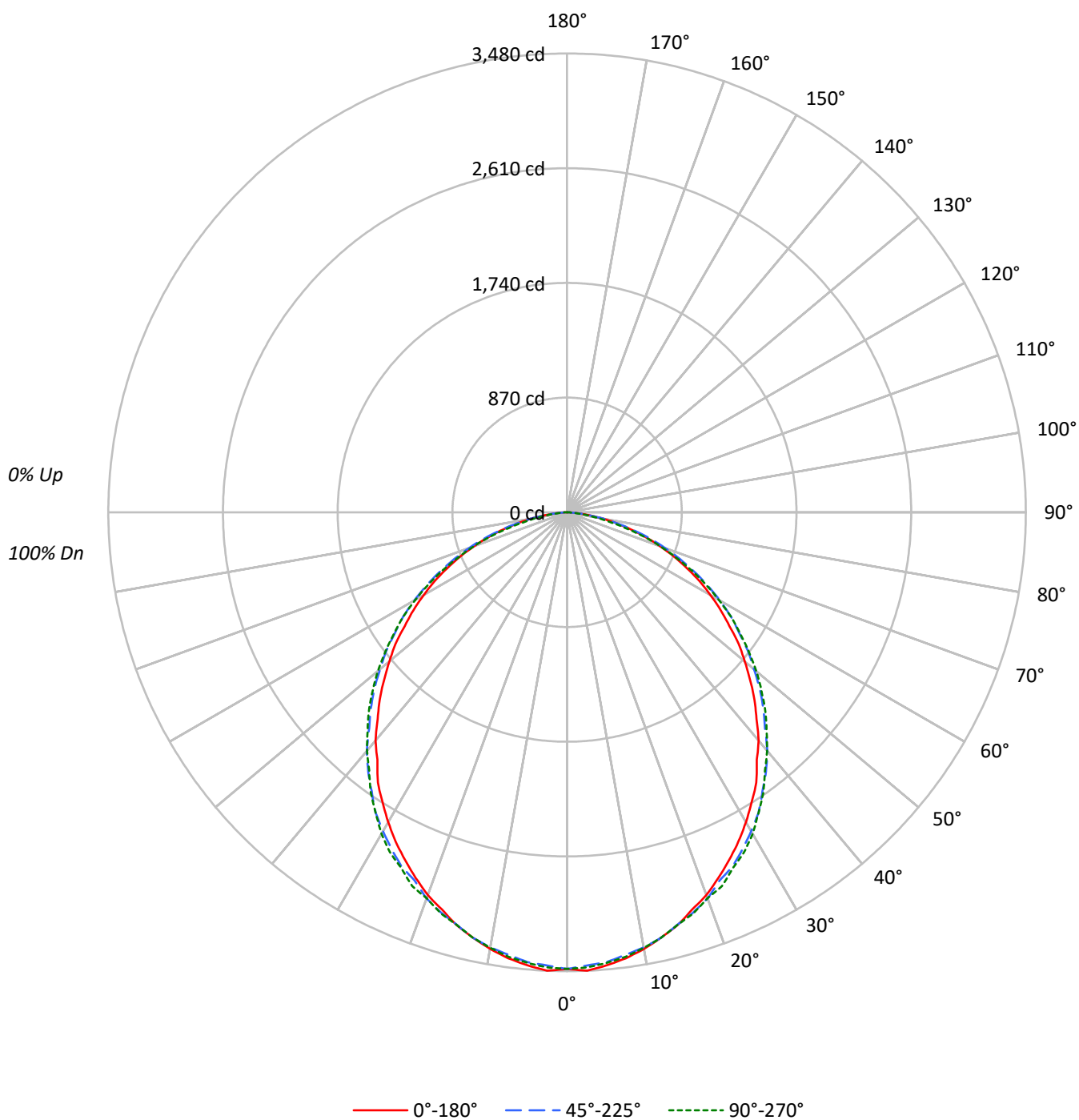
Lumens per Lamp: N/A
Luminaire Lumens: 8893.7 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	9318	9318	9318
5°	9317	9251	9266
10°	9187	9156	9166
15°	9029	9019	9024
20°	8848	8924	8918
25°	8639	8808	8836
30°	8429	8677	8747
35°	8222	8489	8526
40°	7940	8299	8293
45°	7651	8011	8091
50°	7363	7743	7846
55°	7052	7469	7514
60°	6755	7203	7153
65°	6401	6762	6630
70°	5899	6211	5928
75°	5216	5433	4743
80°	4195	4254	3315
85°	2748	2631	1930



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.5	3.7
10°-20°	915.1	10.3
20°-30°	1362.5	15.3
30°-40°	1603.7	18.0
40°-50°	1607.9	18.1
50°-60°	1410.0	15.9
60°-70°	1031.0	11.6
70°-80°	531.3	6.0
80°-90°	106.6	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°	2603.1	29.3
0°-40°	4206.8	47.3
0°-60°	7224.7	81.2
0°-90°	8893.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8893.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3462	3462	3462	3462	3462	
5°	3449	3426	3425	3447	3430	326
15°	3241	3247	3237	3258	3239	912
25°	2910	2923	2966	3008	2976	1340
35°	2503	2514	2584	2612	2596	1559
45°	2010	2020	2105	2132	2126	1549
55°	1503	1537	1592	1615	1602	1349
65°	1005	1028	1062	1058	1041	994
75°	502	506	522	486	456	532
85°	89	87	85	68	62	116
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3462.5	3462.5	3462.5	3462.5	3462.5
2.5°	3479.6	3462.5	3439.8	3458.7	3454.9
5°	3449.3	3426.5	3424.7	3447.4	3430.3
7.5°	3411.4	3407.6	3384.9	3409.5	3400.0
10°	3362.2	3358.4	3350.8	3367.9	3354.6
12.5°	3303.5	3299.7	3303.5	3313.0	3303.5
15°	3241.0	3246.7	3237.2	3258.1	3239.1
17.5°	3157.7	3163.4	3182.3	3189.9	3188.0
20°	3089.6	3093.4	3116.1	3146.4	3114.2
22.5°	3000.6	3010.1	3021.4	3076.3	3068.7
25°	2909.7	2923.0	2966.5	3008.2	2976.0
27.5°	2815.1	2828.3	2881.3	2911.6	2907.8
30°	2712.8	2726.1	2792.4	2834.0	2815.1
32.5°	2606.8	2629.5	2701.5	2737.5	2701.5
35°	2502.7	2514.1	2584.1	2612.5	2595.5
37.5°	2364.5	2408.0	2478.1	2497.0	2466.7
40°	2260.4	2262.3	2362.6	2362.6	2360.7
42.5°	2126.0	2156.3	2222.5	2258.5	2239.6
45°	2010.5	2020.0	2105.1	2131.7	2126.0
47.5°	1883.7	1921.5	1984.0	2014.3	1999.1
50°	1758.7	1785.2	1849.6	1889.3	1874.2
52.5°	1643.2	1664.1	1730.3	1753.0	1737.9
55°	1503.1	1537.2	1592.1	1614.8	1601.6
57.5°	1382.0	1406.6	1474.7	1482.3	1474.7
60°	1255.1	1283.5	1338.4	1344.1	1329.0
62.5°	1134.0	1152.9	1202.1	1204.0	1187.0
65°	1005.2	1028.0	1062.0	1058.3	1041.2
67.5°	878.4	893.6	925.7	912.5	893.6
70°	749.7	762.9	789.4	770.5	753.5
72.5°	624.7	634.2	656.9	628.5	607.7
75°	501.7	505.5	522.5	486.5	456.2
77.5°	380.5	384.3	393.8	357.8	323.7
80°	270.7	270.7	274.5	236.6	213.9
82.5°	170.4	170.4	168.5	140.1	126.8
85°	89.0	87.1	85.2	68.2	62.5
87.5°	32.2	32.2	26.5	24.6	26.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)