

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: P489466

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-3HI-20-120-EDD-90**

Issue Date: 3/11/2021

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: P489466
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-115-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: CLM-24-4-INS-A12125-LD4-3HI-20-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

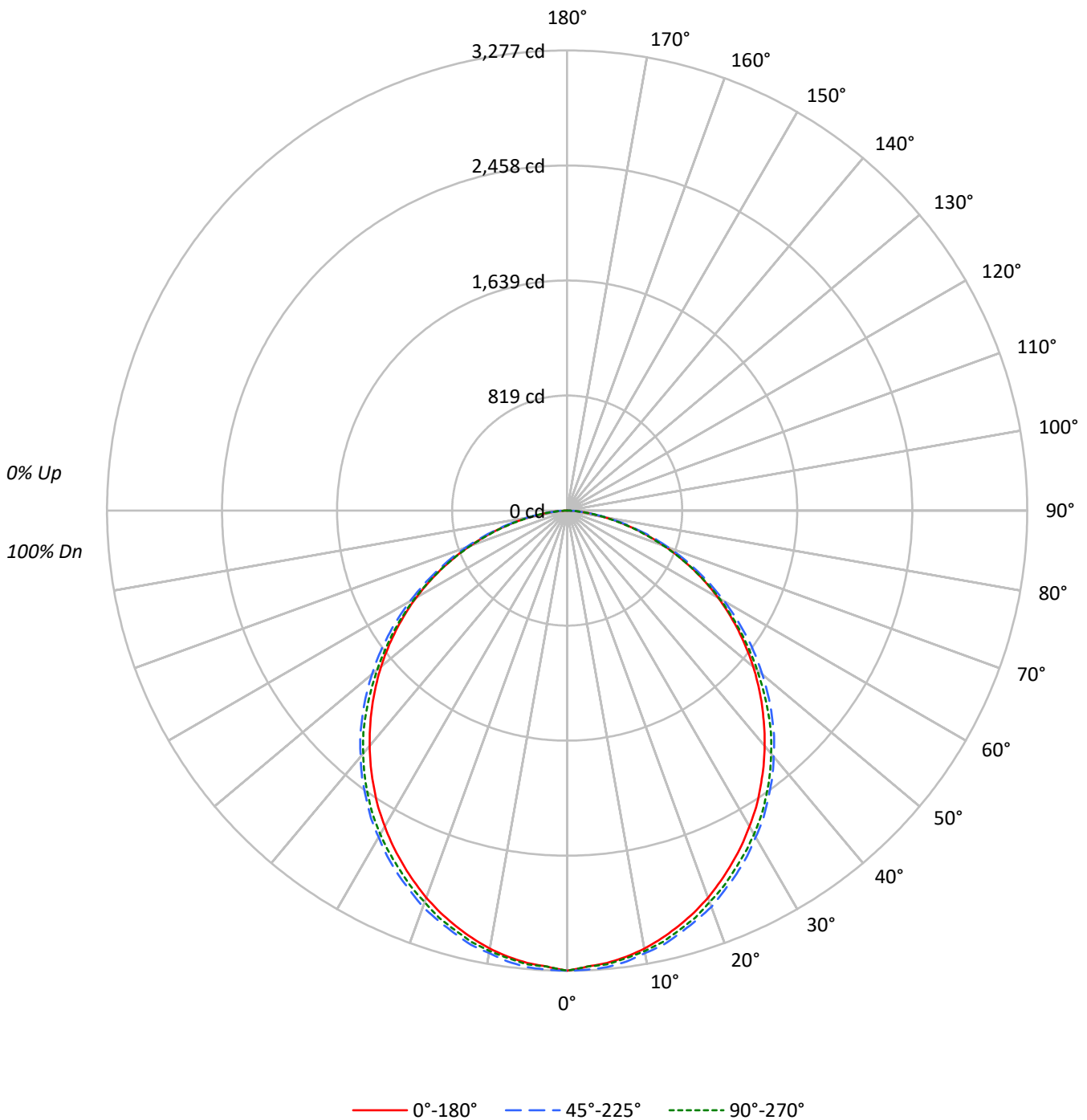
Lumens per Lamp: N/A
Luminaire Lumens: 8614.4 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 129.6
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				10	0
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	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4409	4409	4409
5°	4368	4409	4382
10°	4328	4372	4351
15°	4268	4337	4306
20°	4201	4301	4249
25°	4119	4238	4190
30°	4036	4173	4134
35°	3945	4101	4063
40°	3842	4019	3968
45°	3734	3923	3849
50°	3622	3797	3698
55°	3491	3654	3542
60°	3342	3481	3373
65°	3150	3270	3152
70°	2898	3015	2866
75°	2552	2667	2513
80°	2073	2164	2050
85°	1443	1539	1502



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.6	3.6
10°-20°	874.5	10.2
20°-30°	1304.3	15.1
30°-40°	1545.6	17.9
40°-50°	1563.9	18.2
50°-60°	1365.8	15.9
60°-70°	998.1	11.6
70°-80°	531.1	6.2
80°-90°	122.7	1.4
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°	2487.3	28.9
0°-40°	4032.9	46.8
0°-60°	6962.5	80.8
0°-90°	8614.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8614.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3277	3277	3277	3277	3277	
5°	3234	3240	3264	3272	3244	307
15°	3064	3084	3113	3132	3092	864
25°	2774	2809	2855	2866	2822	1278
35°	2402	2439	2497	2514	2474	1502
45°	1963	1997	2062	2063	2023	1514
55°	1488	1518	1558	1535	1510	1330
65°	989	1010	1027	1007	990	979
75°	491	502	513	494	483	522
85°	94	95	100	101	97	118
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3276.6	3276.6	3276.6	3276.6	3276.6
2.5°	3251.0	3261.6	3272.5	3277.3	3250.7
5°	3233.9	3240.1	3264.3	3271.8	3244.2
7.5°	3205.9	3215.2	3238.7	3242.1	3215.5
10°	3167.7	3184.1	3199.8	3216.9	3184.4
12.5°	3118.9	3141.1	3167.7	3170.8	3146.2
15°	3063.9	3084.4	3113.4	3132.2	3091.6
17.5°	3002.5	3022.3	3059.8	3063.2	3038.7
20°	2933.9	2958.4	3003.5	3011.4	2967.3
22.5°	2856.0	2889.1	2926.7	2934.2	2901.8
25°	2774.4	2808.6	2855.0	2865.6	2822.2
27.5°	2689.1	2721.9	2774.1	2781.6	2745.1
30°	2597.6	2628.3	2685.7	2698.3	2661.1
32.5°	2504.7	2535.5	2599.0	2609.5	2573.4
35°	2401.6	2439.2	2496.9	2514.3	2473.7
37.5°	2296.5	2333.0	2398.6	2414.3	2370.6
40°	2187.6	2223.8	2288.3	2301.3	2259.3
42.5°	2076.3	2112.5	2181.4	2183.5	2148.7
45°	1962.6	1997.4	2061.6	2063.3	2022.7
47.5°	1847.2	1882.4	1939.7	1933.3	1895.0
50°	1730.5	1763.9	1814.1	1801.1	1766.7
52.5°	1609.6	1642.1	1689.5	1668.3	1635.9
55°	1488.1	1518.1	1557.7	1535.2	1509.9
57.5°	1365.5	1395.9	1426.3	1403.4	1381.6
60°	1242.0	1268.6	1293.5	1270.3	1253.6
62.5°	1116.3	1139.2	1160.7	1138.5	1122.8
65°	989.3	1009.5	1027.2	1006.7	990.0
67.5°	863.0	880.1	896.5	875.3	857.9
70°	736.7	751.4	766.4	744.6	728.5
72.5°	612.1	625.1	638.4	617.2	603.2
75°	490.9	502.2	513.1	494.3	483.4
77.5°	375.2	384.7	392.3	380.3	369.7
80°	267.6	274.8	279.3	274.5	264.6
82.5°	172.1	177.2	179.6	179.2	172.7
85°	93.5	95.2	99.7	100.7	97.3
87.5°	36.2	38.6	39.6	42.7	39.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)