

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: P489550

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-5LO-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: P489550
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-LD4-5LO-20-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

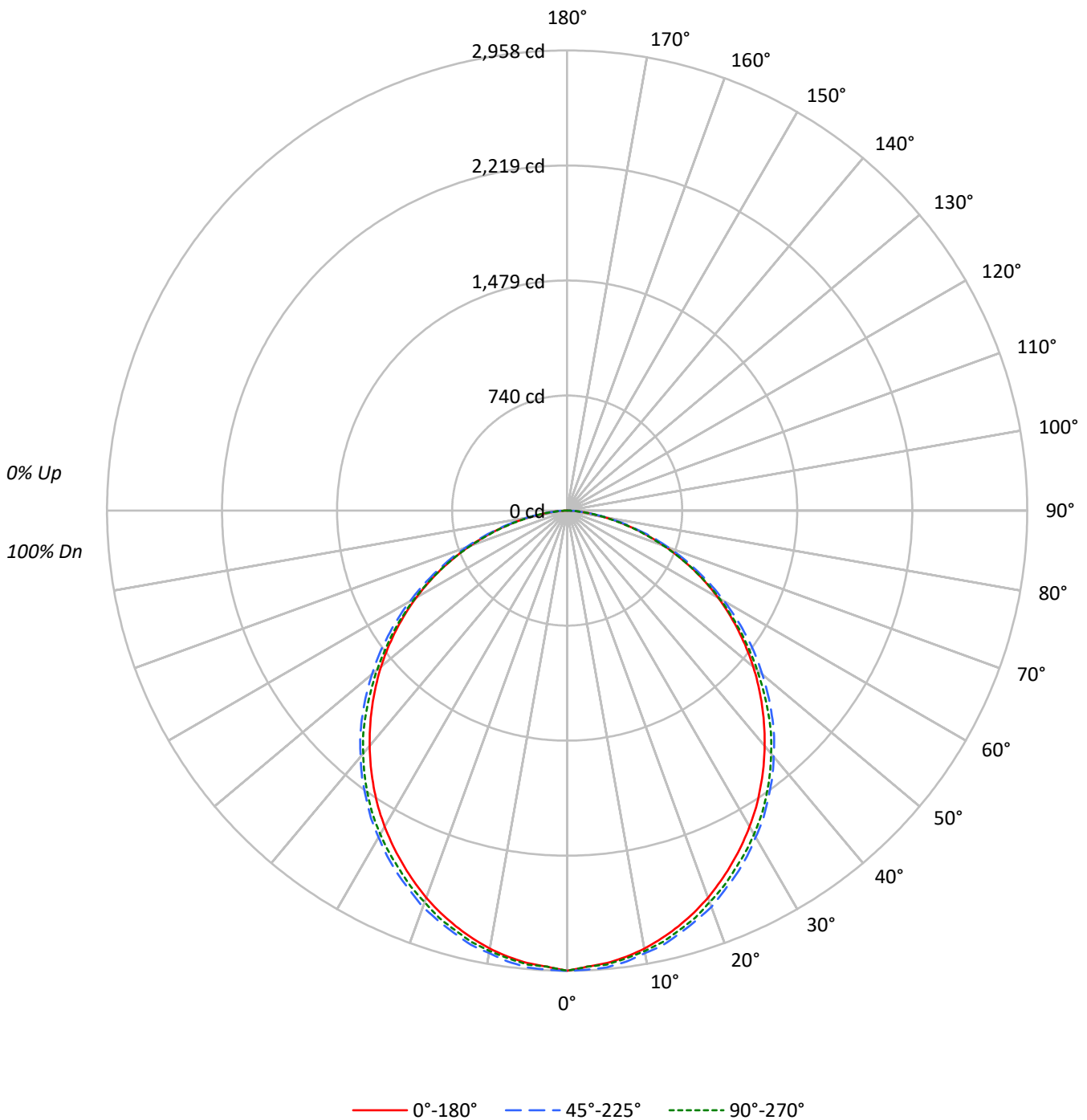
Lumens per Lamp: N/A
Luminaire Lumens: 7776.9 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 117
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°	3980	3980	3980
5°	3943	3980	3956
10°	3907	3947	3928
15°	3853	3915	3888
20°	3792	3882	3836
25°	3718	3826	3782
30°	3643	3767	3732
35°	3561	3702	3668
40°	3469	3628	3582
45°	3371	3542	3475
50°	3270	3428	3338
55°	3151	3299	3198
60°	3017	3143	3045
65°	2843	2953	2846
70°	2616	2722	2587
75°	2304	2408	2269
80°	1872	1953	1851
85°	1303	1389	1355



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.6	3.6
10°-20°	789.5	10.2
20°-30°	1177.5	15.1
30°-40°	1395.3	17.9
40°-50°	1411.8	18.2
50°-60°	1233.0	15.9
60°-70°	901.0	11.6
70°-80°	479.4	6.2
80°-90°	110.8	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°	2245.5	28.9
0°-40°	3640.8	46.8
0°-60°	6285.6	80.8
0°-90°	7776.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7776.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2958	2958	2958	2958	2958	
5°	2920	2925	2947	2954	2929	277
15°	2766	2784	2811	2828	2791	780
25°	2505	2536	2577	2587	2548	1154
35°	2168	2202	2254	2270	2233	1356
45°	1772	1803	1861	1863	1826	1367
55°	1343	1370	1406	1386	1363	1201
65°	893	911	927	909	894	884
75°	443	453	463	446	436	471
85°	84	86	90	91	88	107
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2958.1	2958.1	2958.1	2958.1	2958.1
2.5°	2934.9	2944.5	2954.4	2958.7	2934.6
5°	2919.5	2925.1	2947.0	2953.7	2928.8
7.5°	2894.3	2902.6	2923.8	2926.9	2902.9
10°	2859.7	2874.5	2888.7	2904.1	2874.8
12.5°	2815.7	2835.7	2859.7	2862.5	2840.3
15°	2766.1	2784.5	2810.7	2827.7	2791.0
17.5°	2710.6	2728.5	2762.4	2765.4	2743.2
20°	2648.6	2670.8	2711.5	2718.6	2678.8
22.5°	2578.4	2608.3	2642.2	2648.9	2619.7
25°	2504.7	2535.5	2577.4	2587.0	2547.8
27.5°	2427.7	2457.2	2504.4	2511.2	2478.2
30°	2345.1	2372.8	2424.6	2436.0	2402.4
32.5°	2261.2	2289.0	2346.3	2355.8	2323.2
35°	2168.2	2202.1	2254.1	2269.9	2233.2
37.5°	2073.2	2106.2	2165.4	2179.6	2140.1
40°	1974.9	2007.6	2065.8	2077.5	2039.6
42.5°	1874.4	1907.1	1969.4	1971.2	1939.8
45°	1771.8	1803.2	1861.2	1862.7	1826.1
47.5°	1667.6	1699.4	1751.2	1745.3	1710.8
50°	1562.2	1592.4	1637.7	1626.0	1594.9
52.5°	1453.1	1482.4	1525.3	1506.1	1476.9
55°	1343.4	1370.5	1406.3	1386.0	1363.1
57.5°	1232.8	1260.2	1287.6	1267.0	1247.3
60°	1121.2	1145.3	1167.8	1146.8	1131.7
62.5°	1007.8	1028.4	1047.9	1027.8	1013.7
65°	893.1	911.3	927.4	908.9	893.8
67.5°	779.1	794.5	809.3	790.2	774.5
70°	665.1	678.3	691.9	672.2	657.7
72.5°	552.6	564.3	576.3	557.2	544.6
75°	443.2	453.4	463.2	446.3	436.4
77.5°	338.7	347.3	354.1	343.3	333.8
80°	241.6	248.1	252.1	247.8	238.9
82.5°	155.3	160.0	162.1	161.8	155.9
85°	84.4	86.0	90.0	90.9	87.8
87.5°	32.7	34.8	35.8	38.5	35.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)