

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: P488602

Luminaire Tested: **CLM-12-4-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: P488602
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-12-4-INS-A12125-LD4-3HI-20-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

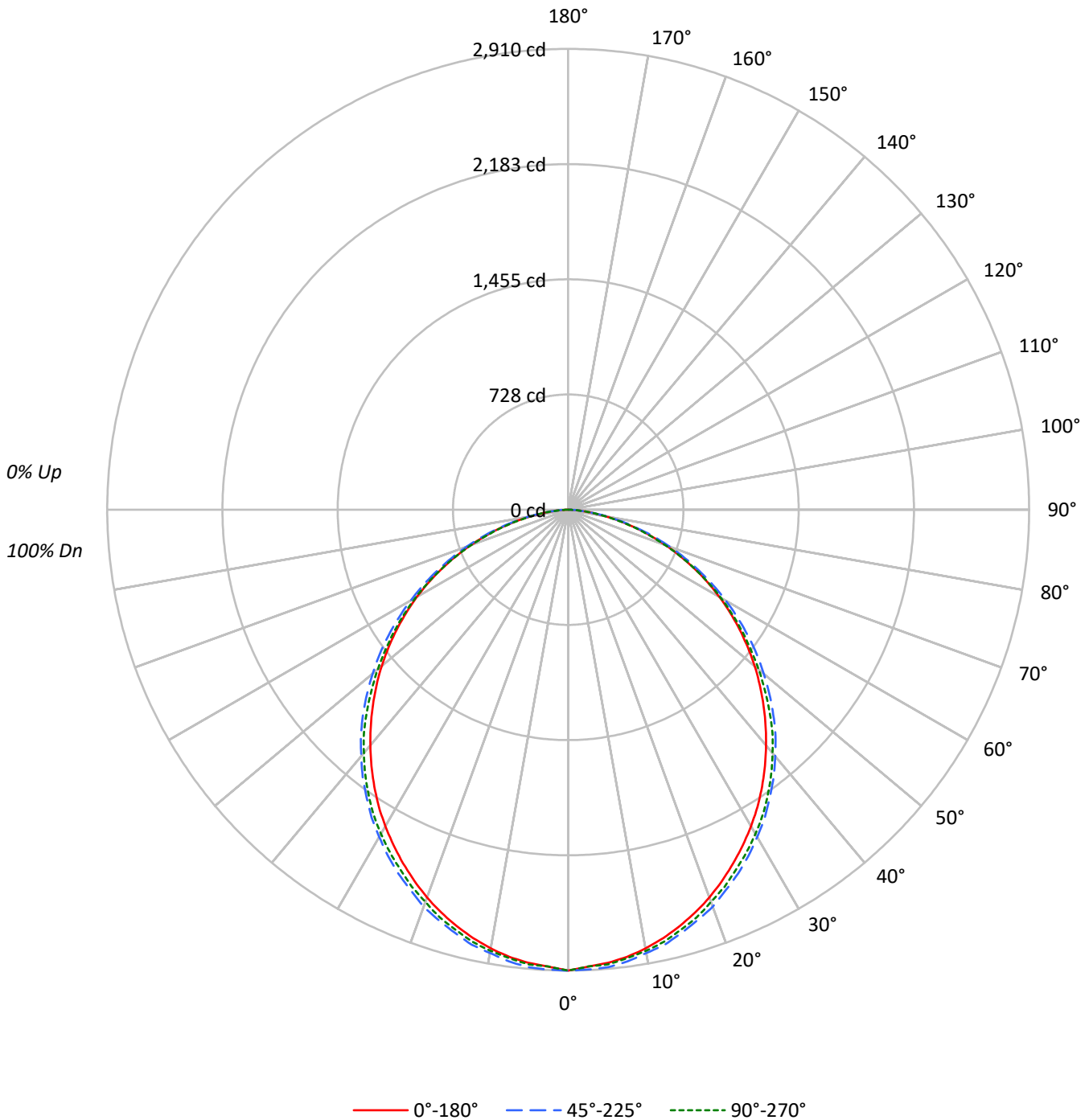
Lumens per Lamp: N/A
Luminaire Lumens: 7651.8 lumens
Efficiency: N/A
Efficacy: 59.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	7832	7832	7832
5°	7760	7833	7784
10°	7688	7766	7729
15°	7582	7704	7650
20°	7463	7640	7548
25°	7317	7530	7443
30°	7169	7413	7345
35°	7008	7286	7218
40°	6826	7140	7050
45°	6634	6969	6838
50°	6435	6746	6570
55°	6201	6492	6292
60°	5937	6184	5993
65°	5596	5810	5599
70°	5149	5356	5091
75°	4534	4739	4465
80°	3684	3843	3642
85°	2566	2732	2668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.1	3.6
10°-20°	776.8	10.2
20°-30°	1158.5	15.1
30°-40°	1372.8	17.9
40°-50°	1389.1	18.2
50°-60°	1213.2	15.9
60°-70°	886.5	11.6
70°-80°	471.7	6.2
80°-90°	109.0	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°	2209.4	28.9
0°-40°	3582.2	46.8
0°-60°	6184.5	80.8
0°-90°	7651.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7651.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2910	2910	2910	2910	2910	
5°	2873	2878	2900	2906	2882	272
15°	2722	2740	2766	2782	2746	767
25°	2464	2495	2536	2545	2507	1135
35°	2133	2167	2218	2233	2197	1334
45°	1743	1774	1831	1833	1797	1345
55°	1322	1348	1384	1364	1341	1182
65°	879	897	912	894	879	870
75°	436	446	456	439	429	464
85°	83	85	88	90	86	105
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2910.5	2910.5	2910.5	2910.5	2910.5
2.5°	2887.7	2897.1	2906.8	2911.1	2887.4
5°	2872.6	2878.0	2899.6	2906.2	2881.7
7.5°	2847.7	2855.9	2876.8	2879.8	2856.2
10°	2813.7	2828.3	2842.2	2857.4	2828.6
12.5°	2770.4	2790.1	2813.7	2816.5	2794.6
15°	2721.6	2739.7	2765.5	2782.2	2746.1
17.5°	2667.0	2684.6	2717.9	2720.9	2699.1
20°	2606.0	2627.9	2667.9	2674.9	2635.7
22.5°	2536.9	2566.3	2599.7	2606.3	2577.5
25°	2464.4	2494.7	2536.0	2545.4	2506.9
27.5°	2388.6	2417.7	2464.1	2470.8	2438.3
30°	2307.3	2334.6	2385.6	2396.8	2363.7
32.5°	2224.9	2252.1	2308.5	2317.9	2285.8
35°	2133.3	2166.6	2217.9	2233.3	2197.3
37.5°	2039.9	2072.3	2130.5	2144.5	2105.7
40°	1943.1	1975.3	2032.6	2044.1	2006.8
42.5°	1844.3	1876.4	1937.7	1939.5	1908.6
45°	1743.3	1774.2	1831.3	1832.8	1796.7
47.5°	1640.8	1672.1	1723.0	1717.2	1683.3
50°	1537.1	1566.8	1611.4	1599.9	1569.3
52.5°	1429.8	1458.6	1500.7	1481.9	1453.1
55°	1321.8	1348.5	1383.7	1363.7	1341.2
57.5°	1212.9	1239.9	1266.9	1246.6	1227.2
60°	1103.2	1126.8	1149.0	1128.3	1113.5
62.5°	991.6	1011.9	1031.0	1011.3	997.3
65°	878.8	896.7	912.4	894.2	879.4
67.5°	766.6	781.7	796.3	777.5	762.0
70°	654.4	667.4	680.8	661.4	647.1
72.5°	543.7	555.2	567.1	548.3	535.8
75°	436.1	446.1	455.8	439.1	429.4
77.5°	333.3	341.7	348.4	337.8	328.4
80°	237.7	244.1	248.0	243.8	235.0
82.5°	152.8	157.4	159.5	159.2	153.4
85°	83.1	84.6	88.5	89.5	86.4
87.5°	32.1	34.3	35.2	37.9	34.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)