

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: P488998

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-5HI-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: P488998
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-24-2-INS-A12125-LD4-5HI-20-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

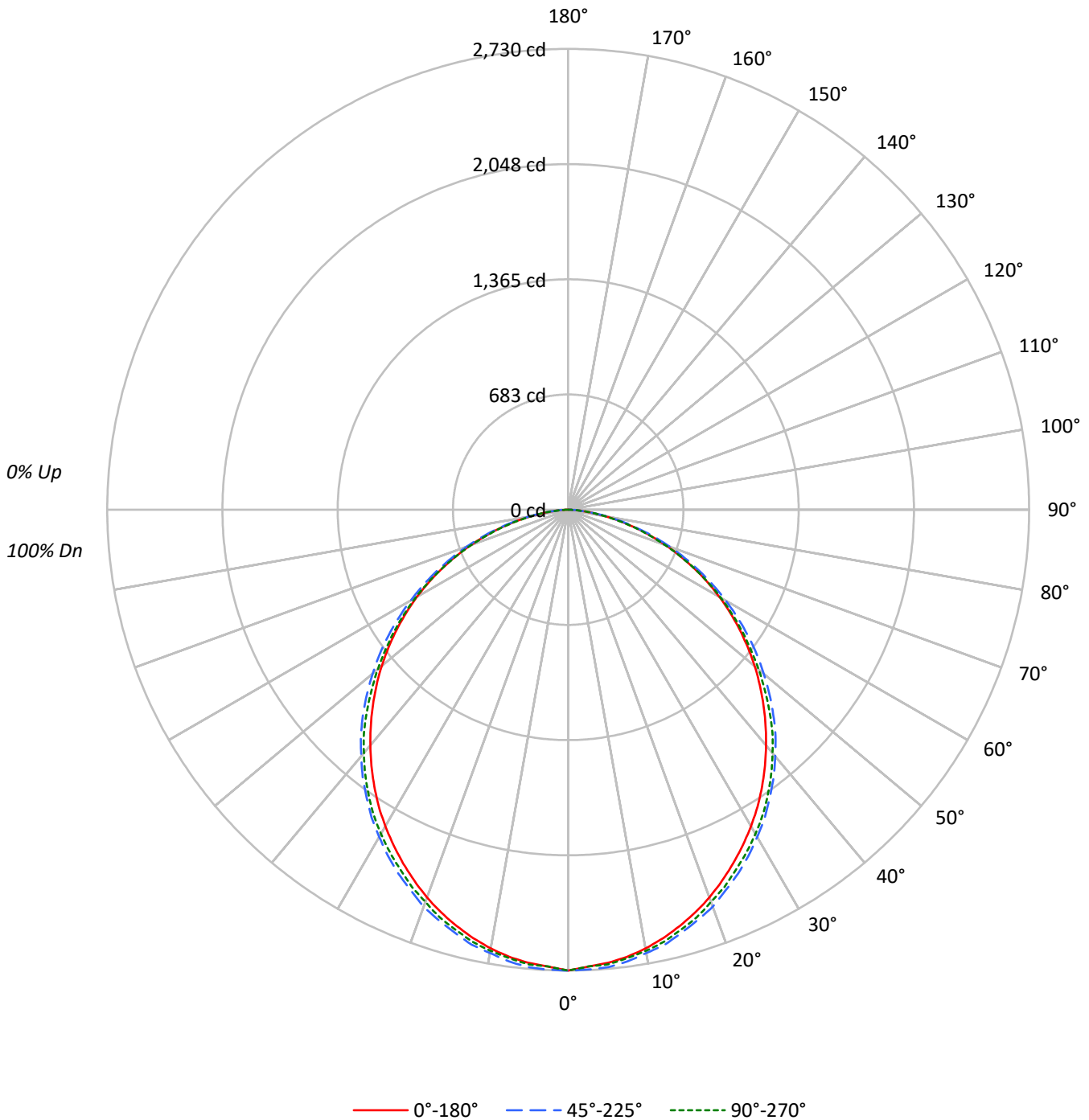
Lumens per Lamp: N/A
Luminaire Lumens: 7178.4 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 108
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°	7347	7347	7347
5°	7279	7348	7303
10°	7213	7286	7251
15°	7113	7228	7177
20°	7001	7167	7081
25°	6864	7064	6983
30°	6726	6954	6890
35°	6574	6835	6772
40°	6404	6698	6614
45°	6224	6538	6414
50°	6037	6329	6163
55°	5818	6090	5903
60°	5570	5801	5622
65°	5249	5450	5253
70°	4830	5025	4777
75°	4253	4446	4188
80°	3456	3606	3417
85°	2405	2566	2504



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.1	3.6
10°-20°	728.7	10.2
20°-30°	1086.8	15.1
30°-40°	1287.9	17.9
40°-50°	1303.2	18.2
50°-60°	1138.1	15.9
60°-70°	831.7	11.6
70°-80°	442.5	6.2
80°-90°	102.3	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°	2072.7	28.9
0°-40°	3360.6	46.8
0°-60°	5801.9	80.8
0°-90°	7178.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7178.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2730	2730	2730	2730	2730	
5°	2695	2700	2720	2726	2703	256
15°	2553	2570	2594	2610	2576	720
25°	2312	2340	2379	2388	2352	1065
35°	2001	2033	2081	2095	2061	1252
45°	1636	1664	1718	1719	1686	1262
55°	1240	1265	1298	1279	1258	1108
65°	824	841	856	839	825	816
75°	409	418	428	412	403	435
85°	78	79	83	84	81	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2730.4	2730.4	2730.4	2730.4	2730.4
2.5°	2709.1	2717.9	2727.0	2731.0	2708.8
5°	2694.8	2700.0	2720.2	2726.4	2703.4
7.5°	2671.5	2679.2	2698.8	2701.7	2679.5
10°	2639.7	2653.3	2666.4	2680.6	2653.6
12.5°	2599.0	2617.5	2639.7	2642.2	2621.7
15°	2553.2	2570.2	2594.4	2610.1	2576.2
17.5°	2502.0	2518.5	2549.8	2552.6	2532.1
20°	2444.8	2465.3	2502.8	2509.4	2472.7
22.5°	2379.9	2407.5	2438.8	2445.1	2418.1
25°	2311.9	2340.4	2379.1	2387.9	2351.8
27.5°	2240.8	2268.1	2311.7	2317.9	2287.5
30°	2164.6	2190.2	2238.0	2248.5	2217.5
32.5°	2087.2	2112.8	2165.7	2174.5	2144.4
35°	2001.3	2032.6	2080.7	2095.2	2061.3
37.5°	1913.7	1944.1	1998.7	2011.8	1975.4
40°	1822.9	1853.1	1906.8	1917.7	1882.7
42.5°	1730.2	1760.3	1817.8	1819.5	1790.5
45°	1635.5	1664.5	1718.0	1719.4	1685.5
47.5°	1539.3	1568.6	1616.4	1611.0	1579.1
50°	1442.0	1469.9	1511.7	1500.9	1472.2
52.5°	1341.3	1368.3	1407.9	1390.2	1363.2
55°	1240.0	1265.1	1298.1	1279.3	1258.2
57.5°	1137.9	1163.2	1188.5	1169.5	1151.3
60°	1034.9	1057.1	1077.9	1058.5	1044.6
62.5°	930.2	949.3	967.2	948.7	935.6
65°	824.4	841.2	856.0	838.9	825.0
67.5°	719.2	733.4	747.0	729.4	714.9
70°	613.9	626.1	638.7	620.4	607.1
72.5°	510.1	520.9	532.0	514.3	502.7
75°	409.1	418.5	427.6	411.9	402.8
77.5°	312.6	320.6	326.9	316.9	308.1
80°	223.0	229.0	232.7	228.7	220.5
82.5°	143.4	147.6	149.6	149.4	143.9
85°	77.9	79.4	83.1	83.9	81.1
87.5°	30.2	32.1	33.0	35.6	32.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)