

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: P489023

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-5STD-20-120-EDD**

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: P489023
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-LD4-5STD-20-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

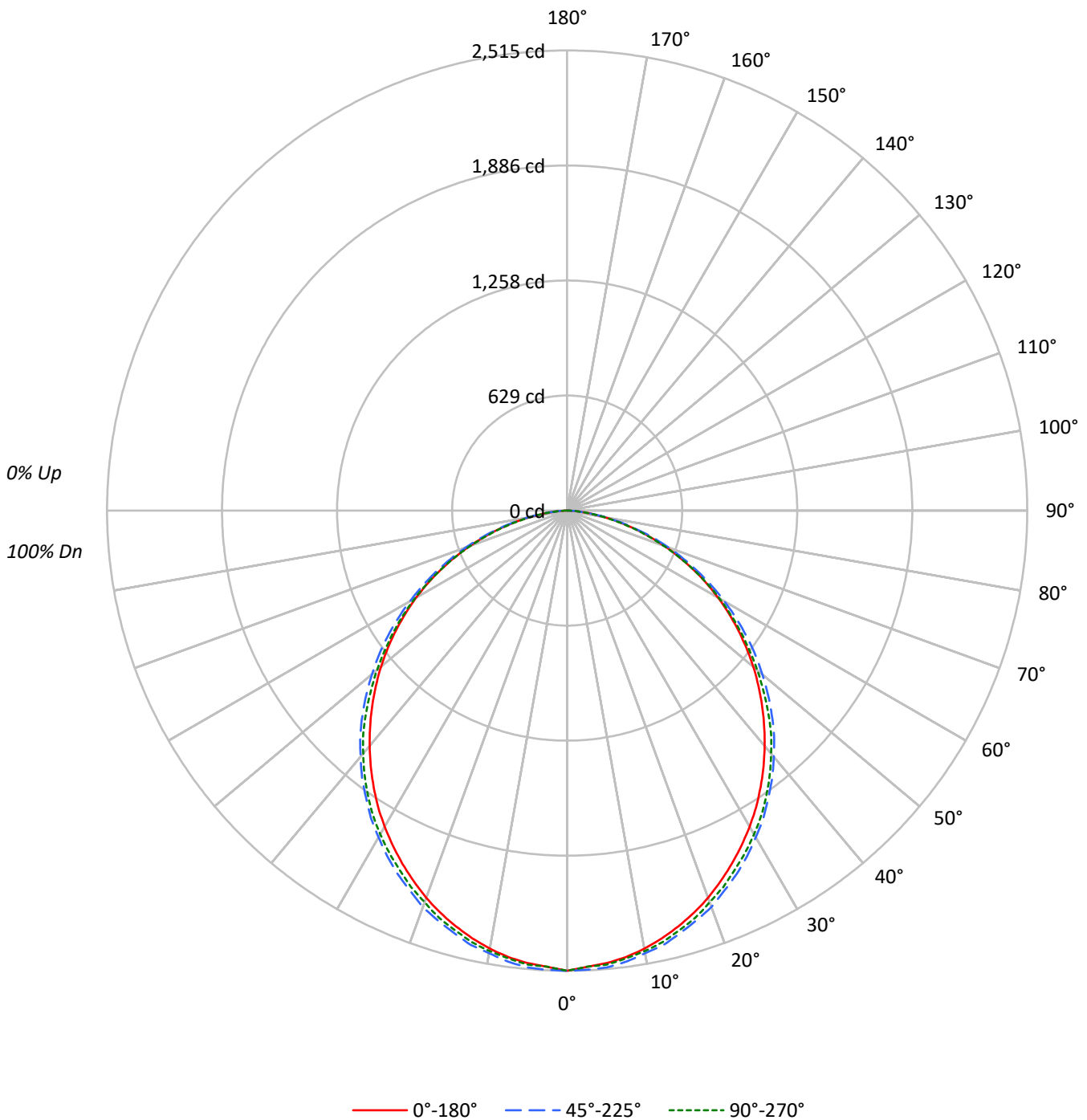
Lumens per Lamp: N/A
Luminaire Lumens: 6612.9 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 83.2
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°	6769	6769	6769
5°	6706	6769	6727
10°	6645	6712	6680
15°	6552	6658	6612
20°	6450	6603	6523
25°	6324	6508	6433
30°	6196	6406	6348
35°	6056	6297	6238
40°	5899	6171	6093
45°	5734	6023	5909
50°	5561	5830	5678
55°	5359	5610	5438
60°	5131	5344	5179
65°	4836	5021	4839
70°	4449	4629	4400
75°	3919	4095	3858
80°	3185	3322	3147
85°	2217	2362	2306



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.9	3.6
10°-20°	671.3	10.2
20°-30°	1001.2	15.1
30°-40°	1186.5	17.9
40°-50°	1200.5	18.2
50°-60°	1048.5	15.9
60°-70°	766.2	11.6
70°-80°	407.7	6.2
80°-90°	94.2	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°	1909.4	28.9
0°-40°	3095.9	46.8
0°-60°	5344.8	80.8
0°-90°	6612.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6612.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2515	2515	2515	2515	2515	
5°	2483	2487	2506	2512	2490	235
15°	2352	2368	2390	2404	2373	663
25°	2130	2156	2192	2200	2166	981
35°	1844	1872	1917	1930	1899	1153
45°	1507	1533	1583	1584	1553	1162
55°	1142	1165	1196	1178	1159	1021
65°	760	775	789	773	760	752
75°	377	386	394	380	371	401
85°	72	73	76	77	75	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2515.3	2515.3	2515.3	2515.3	2515.3
2.5°	2495.7	2503.8	2512.2	2515.8	2495.4
5°	2482.6	2487.3	2505.9	2511.6	2490.4
7.5°	2461.1	2468.1	2486.2	2488.8	2468.4
10°	2431.7	2444.3	2456.3	2469.5	2444.6
12.5°	2394.2	2411.3	2431.7	2434.1	2415.2
15°	2352.0	2367.8	2390.0	2404.5	2373.3
17.5°	2304.9	2320.1	2348.9	2351.5	2332.7
20°	2252.2	2271.1	2305.7	2311.7	2277.9
22.5°	2192.4	2217.9	2246.7	2252.5	2227.6
25°	2129.8	2156.0	2191.7	2199.8	2166.5
27.5°	2064.3	2089.5	2129.6	2135.3	2107.3
30°	1994.1	2017.6	2061.7	2071.4	2042.8
32.5°	1922.8	1946.4	1995.1	2003.2	1975.5
35°	1843.6	1872.5	1916.8	1930.1	1898.9
37.5°	1762.9	1791.0	1841.3	1853.3	1819.8
40°	1679.3	1707.1	1756.6	1766.6	1734.4
42.5°	1593.9	1621.7	1674.6	1676.2	1649.4
45°	1506.6	1533.3	1582.6	1583.9	1552.7
47.5°	1418.0	1445.0	1489.1	1484.1	1454.7
50°	1328.4	1354.1	1392.6	1382.7	1356.2
52.5°	1235.6	1260.5	1297.0	1280.7	1255.8
55°	1142.3	1165.4	1195.8	1178.5	1159.1
57.5°	1048.3	1071.6	1094.9	1077.4	1060.6
60°	953.4	973.8	993.0	975.1	962.3
62.5°	857.0	874.5	891.0	874.0	861.9
65°	759.5	774.9	788.6	772.8	760.0
67.5°	662.5	675.6	688.2	671.9	658.6
70°	565.5	576.8	588.3	571.6	559.2
72.5°	469.9	479.8	490.1	473.8	463.1
75°	376.9	385.5	393.9	379.5	371.1
77.5°	288.0	295.3	301.1	291.9	283.8
80°	205.5	211.0	214.4	210.7	203.1
82.5°	132.1	136.0	137.8	137.6	132.6
85°	71.8	73.1	76.5	77.3	74.7
87.5°	27.8	29.6	30.4	32.8	30.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)