

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: P488958

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-3STD-40-120-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: P488958
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-LD4-3STD-40-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

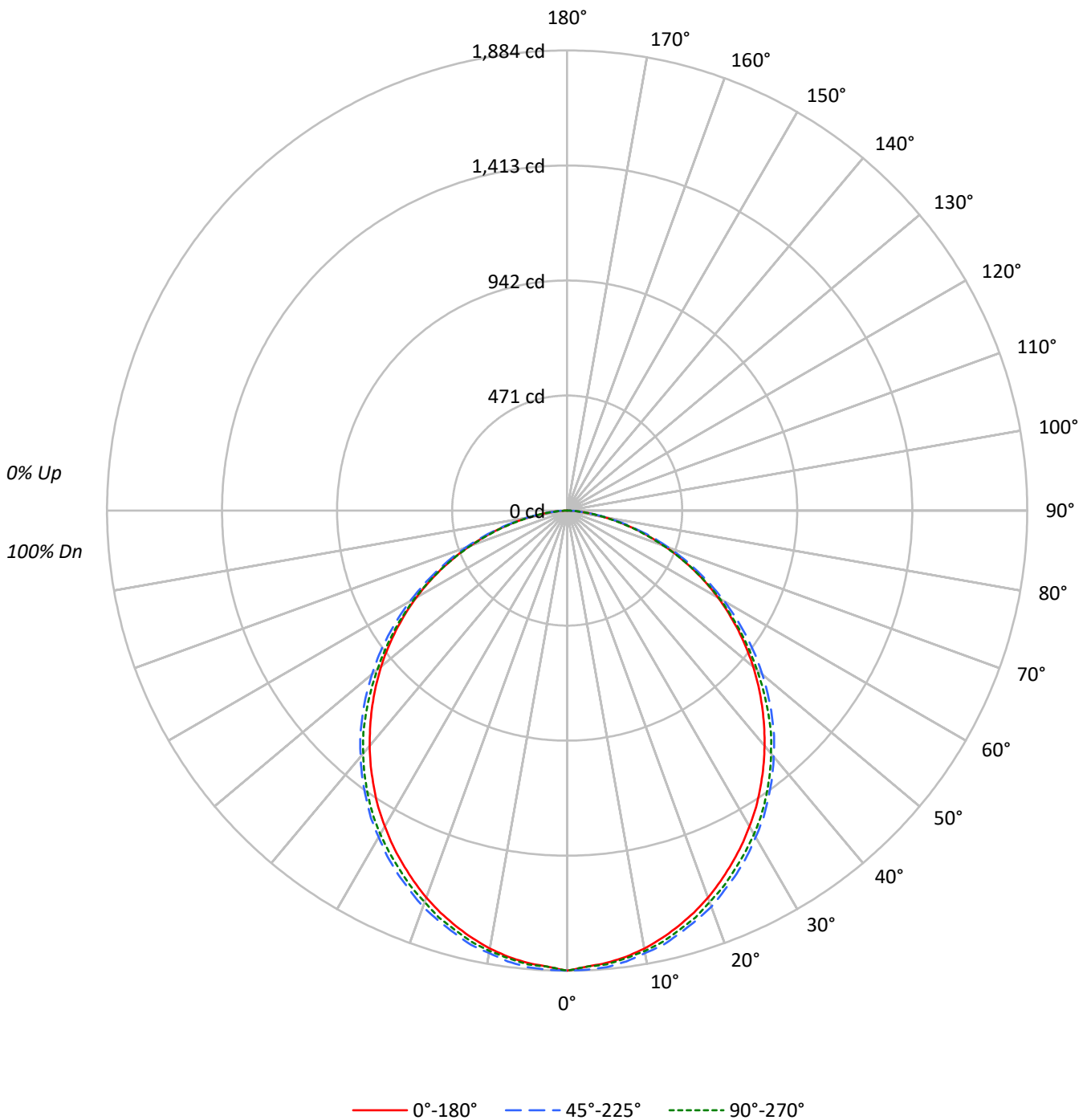
Lumens per Lamp: N/A
Luminaire Lumens: 4951.7 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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

TEST NUMBER: P488958

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-3STD-40-120-EDD-90

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°	5068	5068	5068
5°	5021	5069	5037
10°	4976	5026	5002
15°	4907	4986	4951
20°	4829	4944	4885
25°	4735	4873	4817
30°	4639	4797	4753
35°	4535	4715	4671
40°	4417	4621	4562
45°	4293	4510	4425
50°	4164	4366	4251
55°	4013	4201	4072
60°	3842	4001	3878
65°	3621	3760	3624
70°	3332	3466	3295
75°	2934	3066	2889
80°	2383	2487	2357
85°	1661	1769	1726



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.4	3.6
10°-20°	502.7	10.2
20°-30°	749.7	15.1
30°-40°	888.4	17.9
40°-50°	898.9	18.2
50°-60°	785.1	15.9
60°-70°	573.7	11.6
70°-80°	305.3	6.2
80°-90°	70.5	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°	1429.8	28.9
0°-40°	2318.2	46.8
0°-60°	4002.2	80.8
0°-90°	4951.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4951.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1884	1884	1884	1884	1884	
5°	1859	1862	1876	1881	1865	176
15°	1761	1773	1790	1800	1777	497
25°	1595	1614	1641	1647	1622	735
35°	1380	1402	1435	1445	1422	863
45°	1128	1148	1185	1186	1163	870
55°	855	873	895	882	868	765
65°	569	580	590	579	569	563
75°	282	289	295	284	278	300
85°	54	55	57	58	56	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1883.5	1883.5	1883.5	1883.5	1883.5
2.5°	1868.7	1874.8	1881.1	1883.8	1868.5
5°	1858.9	1862.5	1876.4	1880.7	1864.8
7.5°	1842.8	1848.1	1861.7	1863.6	1848.3
10°	1820.9	1830.3	1839.3	1849.1	1830.5
12.5°	1792.8	1805.5	1820.9	1822.6	1808.5
15°	1761.2	1773.0	1789.7	1800.4	1777.1
17.5°	1725.9	1737.3	1758.8	1760.8	1746.7
20°	1686.4	1700.6	1726.5	1731.0	1705.7
22.5°	1641.7	1660.7	1682.3	1686.6	1668.0
25°	1594.8	1614.4	1641.1	1647.2	1622.3
27.5°	1545.7	1564.6	1594.6	1598.9	1577.9
30°	1493.1	1510.8	1543.8	1551.0	1529.6
32.5°	1439.8	1457.4	1493.9	1500.0	1479.2
35°	1380.5	1402.1	1435.3	1445.3	1421.9
37.5°	1320.1	1341.1	1378.7	1387.8	1362.6
40°	1257.5	1278.3	1315.4	1322.8	1298.7
42.5°	1193.5	1214.3	1253.9	1255.1	1235.1
45°	1128.1	1148.2	1185.1	1186.0	1162.7
47.5°	1061.8	1082.0	1115.0	1111.3	1089.3
50°	994.7	1013.9	1042.8	1035.3	1015.5
52.5°	925.2	943.9	971.2	959.0	940.4
55°	855.4	872.7	895.4	882.5	867.9
57.5°	784.9	802.4	819.9	806.7	794.2
60°	713.9	729.2	743.5	730.2	720.6
62.5°	641.7	654.8	667.2	654.4	645.4
65°	568.7	580.3	590.5	578.7	569.1
67.5°	496.1	505.9	515.3	503.1	493.1
70°	423.5	431.9	440.5	428.0	418.8
72.5°	351.8	359.3	367.0	354.8	346.7
75°	282.2	288.7	294.9	284.1	277.9
77.5°	215.7	221.2	225.5	218.6	212.5
80°	153.8	158.0	160.5	157.8	152.1
82.5°	98.9	101.8	103.2	103.0	99.3
85°	53.8	54.7	57.3	57.9	55.9
87.5°	20.8	22.2	22.8	24.5	22.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)