

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: P488895

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-2HI-30-120-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: P488895
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-LD4-2HI-30-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

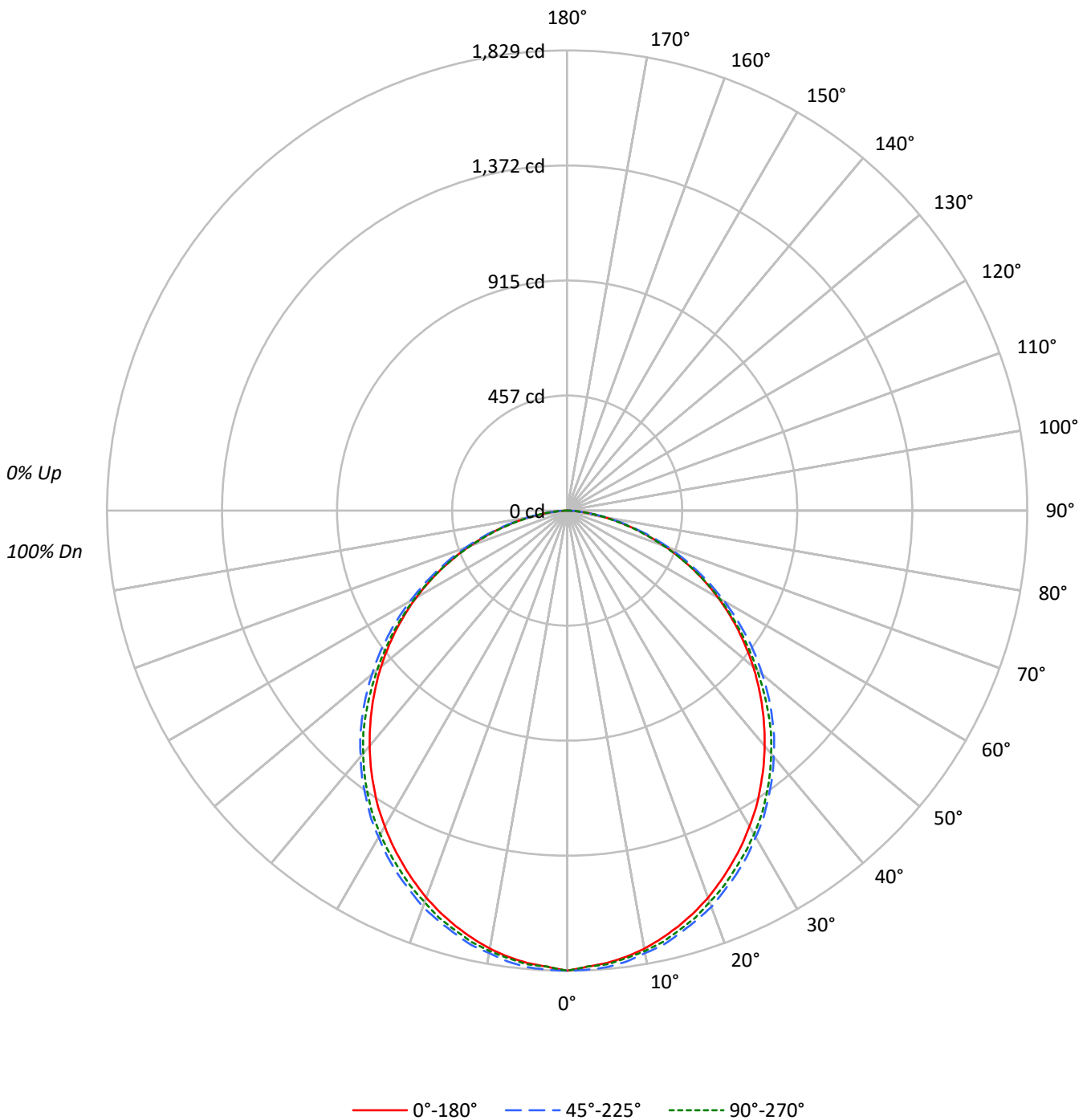
Lumens per Lamp: N/A
Luminaire Lumens: 4808.0 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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°	4921	4921	4921
5°	4876	4921	4891
10°	4831	4880	4856
15°	4764	4841	4807
20°	4689	4801	4743
25°	4598	4731	4677
30°	4505	4658	4615
35°	4403	4578	4535
40°	4289	4487	4430
45°	4169	4379	4296
50°	4043	4239	4128
55°	3897	4079	3954
60°	3731	3886	3766
65°	3516	3650	3519
70°	3235	3366	3199
75°	2849	2978	2805
80°	2315	2416	2289
85°	1612	1717	1677



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.2	3.6
10°-20°	488.1	10.2
20°-30°	728.0	15.1
30°-40°	862.6	17.9
40°-50°	872.8	18.2
50°-60°	762.3	15.9
60°-70°	557.1	11.6
70°-80°	296.4	6.2
80°-90°	68.5	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°	1388.3	28.9
0°-40°	2250.9	46.8
0°-60°	3886.0	80.8
0°-90°	4808.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4808.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1829	1829	1829	1829	1829	
5°	1805	1808	1822	1826	1811	171
15°	1710	1722	1738	1748	1726	482
25°	1548	1568	1594	1599	1575	713
35°	1340	1361	1394	1403	1381	838
45°	1095	1115	1151	1152	1129	845
55°	831	847	869	857	843	742
65°	552	563	573	562	553	546
75°	274	280	286	276	270	291
85°	52	53	56	56	54	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1828.8	1828.8	1828.8	1828.8	1828.8
2.5°	1814.5	1820.4	1826.5	1829.2	1814.3
5°	1805.0	1808.4	1821.9	1826.1	1810.7
7.5°	1789.4	1794.5	1807.6	1809.5	1794.7
10°	1768.0	1777.2	1785.9	1795.4	1777.3
12.5°	1740.8	1753.1	1768.0	1769.7	1756.0
15°	1710.1	1721.5	1737.7	1748.2	1725.5
17.5°	1675.8	1686.8	1707.8	1709.7	1696.0
20°	1637.5	1651.2	1676.4	1680.7	1656.2
22.5°	1594.0	1612.5	1633.5	1637.7	1619.6
25°	1548.5	1567.6	1593.5	1599.4	1575.2
27.5°	1500.9	1519.2	1548.3	1552.5	1532.1
30°	1449.8	1467.0	1499.0	1506.0	1485.3
32.5°	1398.0	1415.1	1450.6	1456.5	1436.3
35°	1340.4	1361.4	1393.6	1403.3	1380.6
37.5°	1281.8	1302.1	1338.7	1347.5	1323.1
40°	1221.0	1241.2	1277.2	1284.4	1261.0
42.5°	1158.9	1179.1	1217.5	1218.7	1199.3
45°	1095.4	1114.8	1150.7	1151.6	1128.9
47.5°	1031.0	1050.6	1082.6	1079.0	1057.7
50°	965.8	984.5	1012.5	1005.3	986.0
52.5°	898.4	916.5	943.0	931.2	913.1
55°	830.6	847.3	869.4	856.9	842.8
57.5°	762.2	779.1	796.1	783.3	771.1
60°	693.2	708.0	722.0	709.0	699.7
62.5°	623.1	635.8	647.8	635.4	626.7
65°	552.2	563.4	573.3	561.9	552.6
67.5°	481.7	491.2	500.4	488.5	478.8
70°	411.2	419.4	427.8	415.6	406.6
72.5°	341.6	348.9	356.3	344.5	336.7
75°	274.0	280.3	286.4	275.9	269.8
77.5°	209.4	214.7	218.9	212.3	206.4
80°	149.4	153.4	155.9	153.2	147.7
82.5°	96.0	98.9	100.2	100.0	96.4
85°	52.2	53.2	55.6	56.2	54.3
87.5°	20.2	21.5	22.1	23.8	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)