

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: P488955

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-3STD-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: P488955
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-30-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

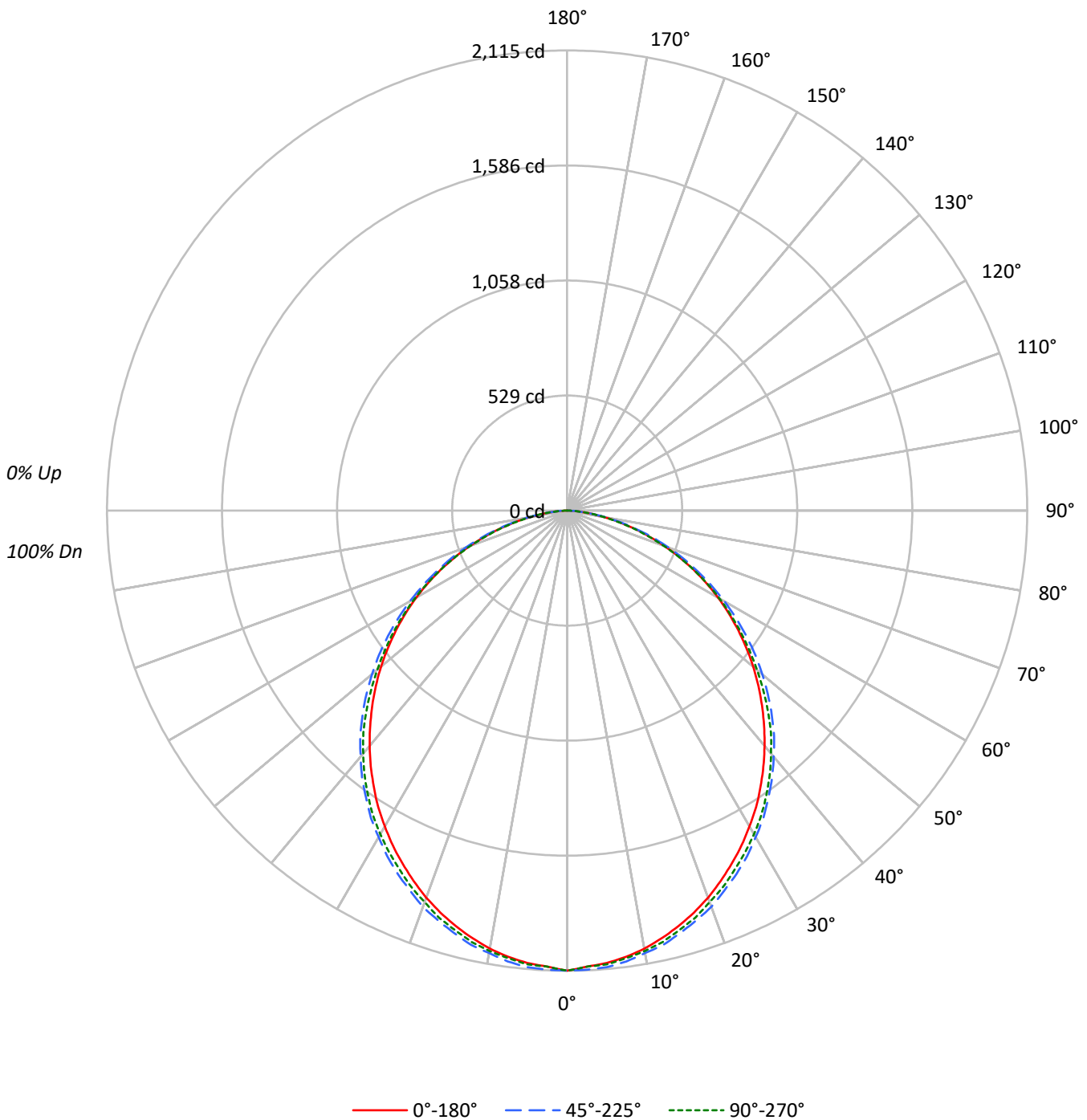
Lumens per Lamp: N/A
Luminaire Lumens: 5559.3 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

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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°	5690	5690	5690
5°	5638	5690	5655
10°	5586	5643	5616
15°	5509	5598	5558
20°	5422	5551	5484
25°	5316	5471	5408
30°	5209	5386	5336
35°	5092	5294	5244
40°	4959	5188	5122
45°	4820	5063	4968
50°	4675	4901	4773
55°	4505	4716	4571
60°	4314	4493	4354
65°	4066	4221	4068
70°	3740	3891	3699
75°	3294	3442	3244
80°	2676	2793	2645
85°	1865	1985	1939



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.1	3.6
10°-20°	564.4	10.2
20°-30°	841.7	15.1
30°-40°	997.4	17.9
40°-50°	1009.2	18.2
50°-60°	881.4	15.9
60°-70°	644.1	11.6
70°-80°	342.7	6.2
80°-90°	79.2	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°	1605.2	28.9
0°-40°	2602.6	46.8
0°-60°	4493.3	80.8
0°-90°	5559.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5559.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2115	2115	2115	2115	2115	
5°	2087	2091	2107	2112	2094	198
15°	1977	1990	2009	2021	1995	557
25°	1790	1812	1842	1849	1821	825
35°	1550	1574	1611	1623	1596	969
45°	1267	1289	1330	1332	1305	977
55°	960	980	1005	991	974	858
65°	638	652	663	650	639	632
75°	317	324	331	319	312	337
85°	60	62	64	65	63	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2114.6	2114.6	2114.6	2114.6	2114.6
2.5°	2098.0	2104.9	2111.9	2115.0	2097.8
5°	2087.0	2091.0	2106.6	2111.5	2093.6
7.5°	2069.0	2074.9	2090.1	2092.3	2075.1
10°	2044.3	2054.9	2065.0	2076.0	2055.1
12.5°	2012.8	2027.1	2044.3	2046.3	2030.4
15°	1977.3	1990.5	2009.3	2021.4	1995.2
17.5°	1937.6	1950.4	1974.7	1976.9	1961.0
20°	1893.4	1909.2	1938.3	1943.4	1915.0
22.5°	1843.1	1864.5	1888.7	1893.6	1872.7
25°	1790.5	1812.5	1842.5	1849.3	1821.3
27.5°	1735.4	1756.6	1790.3	1795.1	1771.5
30°	1676.4	1696.2	1733.2	1741.4	1717.3
32.5°	1616.4	1636.3	1677.2	1684.1	1660.7
35°	1549.9	1574.1	1611.4	1622.6	1596.4
37.5°	1482.0	1505.6	1547.9	1558.1	1529.9
40°	1411.8	1435.1	1476.8	1485.1	1458.0
42.5°	1339.9	1363.3	1407.8	1409.1	1386.6
45°	1266.6	1289.0	1330.5	1331.6	1305.4
47.5°	1192.1	1214.8	1251.8	1247.6	1223.0
50°	1116.8	1138.4	1170.7	1162.4	1140.1
52.5°	1038.8	1059.7	1090.3	1076.7	1055.7
55°	960.3	979.7	1005.3	990.7	974.4
57.5°	881.3	900.9	920.5	905.7	891.6
60°	801.5	818.7	834.8	819.8	809.0
62.5°	720.4	735.2	749.1	734.7	724.6
65°	638.5	651.5	662.9	649.7	638.9
67.5°	557.0	568.0	578.5	564.9	553.6
70°	475.4	484.9	494.6	480.5	470.1
72.5°	395.0	403.4	412.0	398.3	389.3
75°	316.8	324.1	331.1	319.0	312.0
77.5°	242.1	248.3	253.1	245.4	238.6
80°	172.7	177.4	180.2	177.1	170.7
82.5°	111.0	114.3	115.9	115.7	111.5
85°	60.4	61.5	64.3	65.0	62.8
87.5°	23.4	24.9	25.6	27.5	25.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)