

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: P489022

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-5STD-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: P489022
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-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

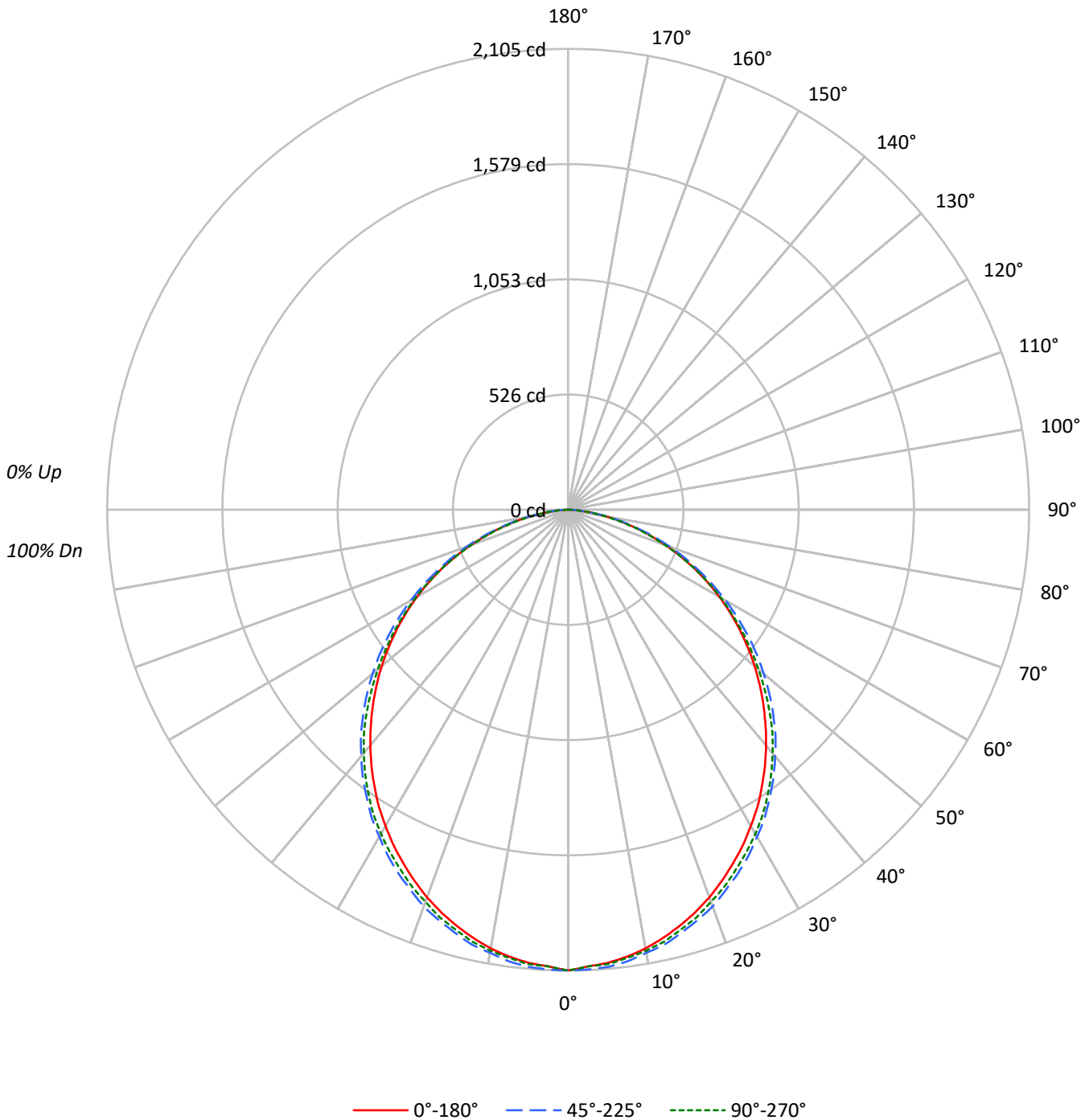
Lumens per Lamp: N/A
Luminaire Lumens: 5533.3 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	5664	5664	5664
5°	5611	5664	5629
10°	5560	5616	5589
15°	5483	5572	5532
20°	5397	5525	5458
25°	5291	5445	5383
30°	5184	5360	5311
35°	5068	5269	5220
40°	4936	5163	5098
45°	4798	5039	4944
50°	4653	4878	4751
55°	4485	4694	4550
60°	4293	4472	4334
65°	4046	4201	4049
70°	3723	3873	3681
75°	3278	3427	3228
80°	2664	2780	2633
85°	1856	1976	1930



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.2	3.6
10°-20°	561.7	10.2
20°-30°	837.8	15.1
30°-40°	992.8	17.9
40°-50°	1004.5	18.2
50°-60°	877.3	15.9
60°-70°	641.1	11.6
70°-80°	341.1	6.2
80°-90°	78.8	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°	1597.7	28.9
0°-40°	2590.4	46.8
0°-60°	4472.2	80.8
0°-90°	5533.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5533.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2105	2105	2105	2105	2105	
5°	2077	2081	2097	2102	2084	197
15°	1968	1981	2000	2012	1986	555
25°	1782	1804	1834	1841	1813	821
35°	1543	1567	1604	1615	1589	965
45°	1261	1283	1324	1325	1299	973
55°	956	975	1001	986	970	854
65°	636	648	660	647	636	629
75°	315	323	330	318	310	335
85°	60	61	64	65	62	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2104.7	2104.7	2104.7	2104.7	2104.7
2.5°	2088.2	2095.0	2102.0	2105.1	2088.0
5°	2077.3	2081.2	2096.8	2101.6	2083.8
7.5°	2059.3	2065.2	2080.3	2082.5	2065.4
10°	2034.7	2045.2	2055.3	2066.3	2045.5
12.5°	2003.4	2017.6	2034.7	2036.7	2020.9
15°	1968.1	1981.2	1999.9	2011.9	1985.8
17.5°	1928.6	1941.3	1965.4	1967.6	1951.8
20°	1884.5	1900.3	1929.2	1934.3	1906.0
22.5°	1834.5	1855.8	1879.9	1884.7	1863.9
25°	1782.1	1804.0	1833.9	1840.7	1812.8
27.5°	1727.3	1748.3	1781.9	1786.7	1763.2
30°	1668.5	1688.3	1725.1	1733.2	1709.3
32.5°	1608.9	1628.6	1669.4	1676.2	1652.9
35°	1542.7	1566.8	1603.8	1615.0	1588.9
37.5°	1475.1	1498.6	1540.7	1550.8	1522.7
40°	1405.2	1428.4	1469.8	1478.2	1451.2
42.5°	1333.7	1356.9	1401.2	1402.5	1380.2
45°	1260.7	1283.0	1324.2	1325.3	1299.2
47.5°	1186.5	1209.1	1246.0	1241.8	1217.2
50°	1111.5	1133.0	1165.3	1156.9	1134.8
52.5°	1033.9	1054.7	1085.2	1071.6	1050.8
55°	955.9	975.1	1000.6	986.1	969.9
57.5°	877.1	896.6	916.2	901.5	887.4
60°	797.7	814.9	830.9	815.9	805.2
62.5°	717.1	731.7	745.6	731.3	721.2
65°	635.5	648.4	659.8	646.7	635.9
67.5°	554.3	565.3	575.8	562.2	551.1
70°	473.2	482.6	492.3	478.3	467.9
72.5°	393.2	401.5	410.1	396.5	387.5
75°	315.3	322.6	329.6	317.5	310.5
77.5°	241.0	247.1	252.0	244.3	237.5
80°	171.9	176.5	179.4	176.3	169.9
82.5°	110.5	113.8	115.3	115.1	111.0
85°	60.1	61.2	64.0	64.7	62.5
87.5°	23.2	24.8	25.4	27.4	25.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)