

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: P488979

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-4LO-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: P488979
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-LD4-4LO-30-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

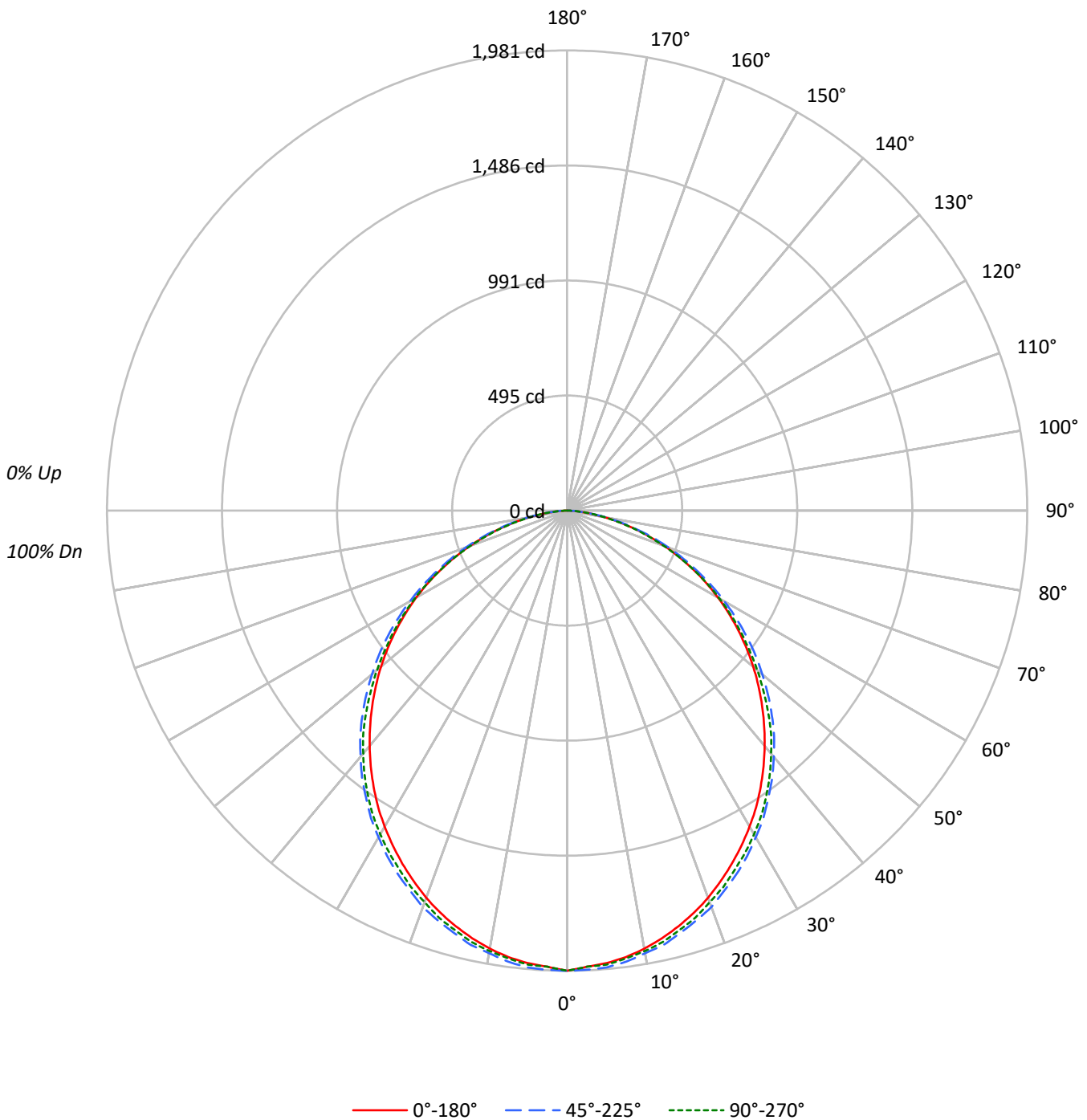
Lumens per Lamp: N/A
Luminaire Lumens: 5208.7 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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°	5331	5331	5331
5°	5282	5332	5299
10°	5234	5287	5261
15°	5161	5244	5208
20°	5080	5201	5138
25°	4981	5126	5067
30°	4880	5046	5000
35°	4771	4959	4913
40°	4646	4860	4799
45°	4516	4744	4654
50°	4380	4592	4472
55°	4221	4419	4283
60°	4042	4209	4080
65°	3809	3955	3812
70°	3505	3646	3466
75°	3086	3225	3039
80°	2507	2617	2479
85°	1748	1862	1815



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.6	3.6
10°-20°	528.8	10.2
20°-30°	788.6	15.1
30°-40°	934.5	17.9
40°-50°	945.6	18.2
50°-60°	825.8	15.9
60°-70°	603.5	11.6
70°-80°	321.1	6.2
80°-90°	74.2	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°	1504.0	28.9
0°-40°	2438.5	46.8
0°-60°	4209.9	80.8
0°-90°	5208.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5208.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1981	1981	1981	1981	1981	
5°	1955	1959	1974	1978	1962	185
15°	1853	1865	1882	1894	1869	522
25°	1678	1698	1726	1733	1706	773
35°	1452	1475	1510	1520	1496	908
45°	1187	1208	1247	1248	1223	915
55°	900	918	942	928	913	804
65°	598	610	621	609	599	592
75°	297	304	310	299	292	316
85°	57	58	60	61	59	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1981.2	1981.2	1981.2	1981.2	1981.2
2.5°	1965.7	1972.1	1978.7	1981.6	1965.5
5°	1955.4	1959.1	1973.8	1978.3	1961.6
7.5°	1938.5	1944.0	1958.3	1960.4	1944.3
10°	1915.4	1925.3	1934.8	1945.1	1925.5
12.5°	1885.8	1899.3	1915.4	1917.2	1902.4
15°	1852.6	1865.0	1882.5	1893.9	1869.3
17.5°	1815.5	1827.4	1850.1	1852.2	1837.3
20°	1774.0	1788.8	1816.1	1820.8	1794.2
22.5°	1726.9	1746.9	1769.6	1774.2	1754.6
25°	1677.6	1698.2	1726.3	1732.7	1706.5
27.5°	1626.0	1645.8	1677.4	1681.9	1659.8
30°	1570.6	1589.2	1623.9	1631.5	1609.0
32.5°	1514.5	1533.1	1571.5	1577.9	1556.0
35°	1452.2	1474.9	1509.7	1520.3	1495.7
37.5°	1388.6	1410.7	1450.3	1459.8	1433.4
40°	1322.7	1344.6	1383.6	1391.5	1366.1
42.5°	1255.4	1277.3	1319.0	1320.3	1299.2
45°	1186.7	1207.8	1246.6	1247.6	1223.0
47.5°	1116.9	1138.2	1172.9	1168.9	1145.8
50°	1046.3	1066.6	1096.9	1089.1	1068.2
52.5°	973.3	992.9	1021.6	1008.8	989.2
55°	899.8	917.9	941.9	928.3	913.0
57.5°	825.7	844.0	862.4	848.6	835.4
60°	751.0	767.1	782.1	768.1	758.0
62.5°	675.0	688.8	701.8	688.4	678.9
65°	598.2	610.4	621.1	608.7	598.6
67.5°	521.8	532.1	542.1	529.3	518.7
70°	445.5	454.3	463.4	450.2	440.5
72.5°	370.1	378.0	386.0	373.2	364.7
75°	296.8	303.6	310.2	298.9	292.3
77.5°	226.9	232.6	237.2	230.0	223.6
80°	161.8	166.2	168.9	166.0	160.0
82.5°	104.0	107.1	108.6	108.4	104.4
85°	56.6	57.6	60.3	60.9	58.8
87.5°	21.9	23.3	23.9	25.8	23.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)