

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: P489447

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-2LO-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: P489447
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-24-4-INS-A12125-LD4-2LO-30-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

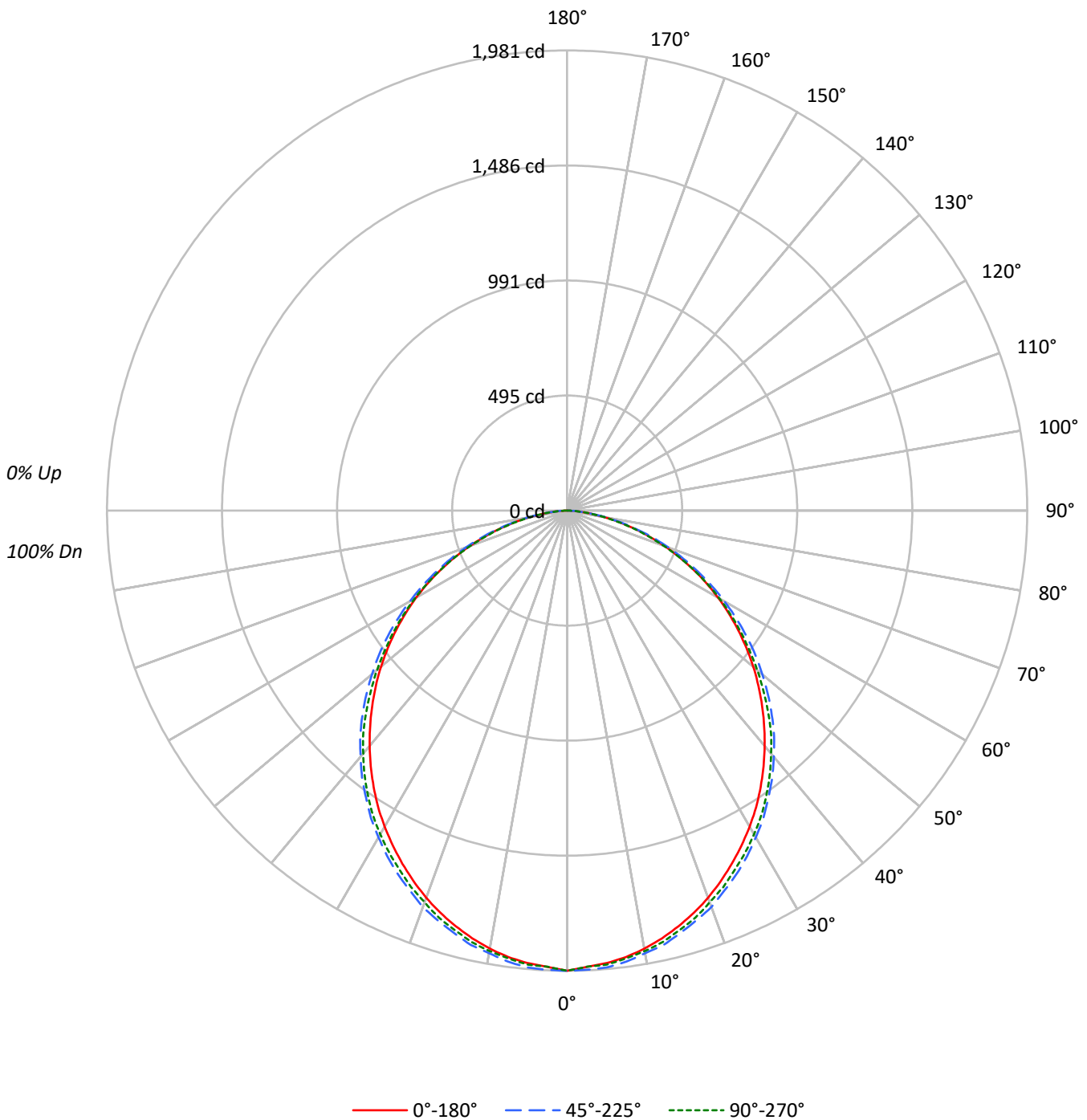
Lumens per Lamp: N/A
Luminaire Lumens: 5208.9 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2666	2666	2666
5°	2641	2666	2650
10°	2617	2643	2631
15°	2581	2622	2604
20°	2540	2600	2569
25°	2491	2563	2533
30°	2440	2523	2500
35°	2385	2480	2457
40°	2323	2430	2399
45°	2258	2372	2327
50°	2190	2296	2236
55°	2111	2209	2142
60°	2021	2105	2040
65°	1904	1977	1906
70°	1753	1823	1733
75°	1543	1613	1520
80°	1254	1309	1240
85°	874	931	908



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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°	825.9	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°	2438.6	46.8
0°-60°	4210.0	80.8
0°-90°	5208.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5208.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1981	1981	1981	1981	1981	
5°	1956	1959	1974	1978	1962	185
15°	1853	1865	1883	1894	1869	522
25°	1678	1698	1726	1733	1706	773
35°	1452	1475	1510	1520	1496	908
45°	1187	1208	1247	1248	1223	916
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°	1981.3	1981.3	1981.3	1981.3	1981.3
2.5°	1965.8	1972.2	1978.8	1981.7	1965.6
5°	1955.5	1959.2	1973.8	1978.4	1961.7
7.5°	1938.5	1944.1	1958.4	1960.4	1944.3
10°	1915.4	1925.3	1934.8	1945.2	1925.5
12.5°	1885.9	1899.3	1915.4	1917.3	1902.4
15°	1852.7	1865.1	1882.6	1894.0	1869.4
17.5°	1815.5	1827.5	1850.2	1852.3	1837.4
20°	1774.0	1788.9	1816.1	1820.9	1794.3
22.5°	1727.0	1747.0	1769.7	1774.2	1754.6
25°	1677.6	1698.3	1726.3	1732.7	1706.5
27.5°	1626.0	1645.8	1677.4	1682.0	1659.9
30°	1570.7	1589.3	1624.0	1631.6	1609.1
32.5°	1514.6	1533.1	1571.5	1577.9	1556.0
35°	1452.2	1474.9	1509.8	1520.3	1495.8
37.5°	1388.6	1410.7	1450.4	1459.8	1433.4
40°	1322.8	1344.7	1383.7	1391.5	1366.1
42.5°	1255.5	1277.4	1319.1	1320.3	1299.2
45°	1186.7	1207.8	1246.6	1247.6	1223.1
47.5°	1117.0	1138.2	1172.9	1169.0	1145.9
50°	1046.4	1066.6	1096.9	1089.1	1068.3
52.5°	973.3	992.9	1021.6	1008.8	989.2
55°	899.8	918.0	941.9	928.3	913.0
57.5°	825.7	844.1	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	608.8	598.6
67.5°	521.8	532.2	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	364.8
75°	296.8	303.7	310.3	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	104.5
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)