

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: P489445

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-2LO-27-120-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: P489445
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-27-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

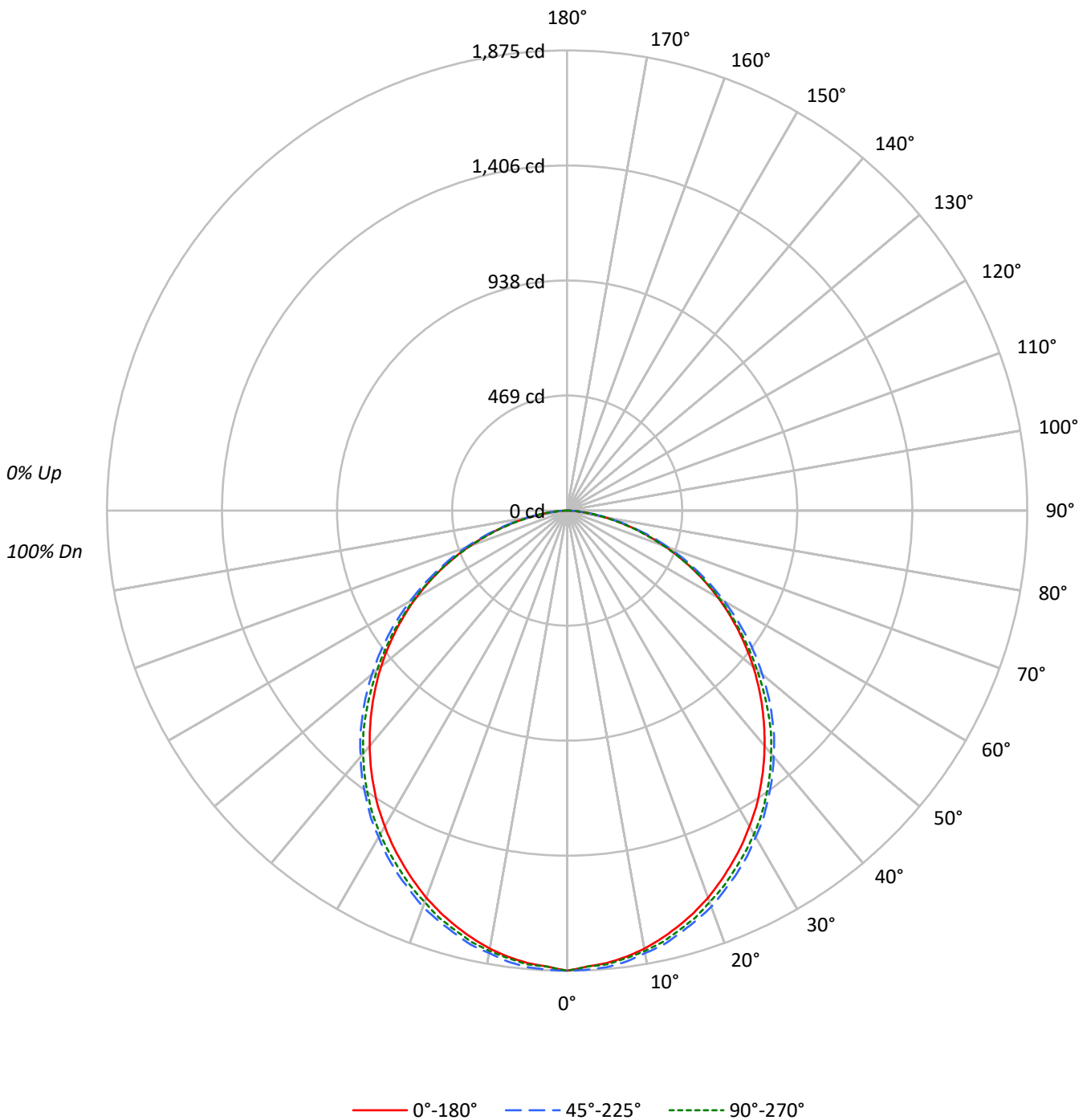
Lumens per Lamp: N/A
Luminaire Lumens: 4928.7 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2522	2522	2522
5°	2499	2523	2507
10°	2476	2501	2489
15°	2442	2481	2464
20°	2403	2460	2431
25°	2357	2425	2397
30°	2309	2387	2365
35°	2257	2347	2325
40°	2198	2299	2270
45°	2137	2245	2202
50°	2072	2173	2116
55°	1997	2091	2027
60°	1912	1992	1930
65°	1802	1871	1803
70°	1658	1725	1640
75°	1460	1526	1438
80°	1186	1238	1173
85°	826	880	860



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.6	3.6
10°-20°	500.3	10.2
20°-30°	746.2	15.1
30°-40°	884.3	17.9
40°-50°	894.8	18.2
50°-60°	781.4	15.9
60°-70°	571.0	11.6
70°-80°	303.8	6.2
80°-90°	70.2	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°	1423.1	28.9
0°-40°	2307.4	46.8
0°-60°	3983.6	80.8
0°-90°	4928.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4928.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1875	1875	1875	1875	1875	
5°	1850	1854	1868	1872	1856	175
15°	1753	1765	1781	1792	1769	494
25°	1587	1607	1634	1640	1615	731
35°	1374	1396	1429	1438	1415	859
45°	1123	1143	1180	1180	1157	866
55°	851	869	891	878	864	761
65°	566	578	588	576	566	560
75°	281	287	294	283	277	299
85°	54	54	57	58	56	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1874.7	1874.7	1874.7	1874.7	1874.7
2.5°	1860.1	1866.1	1872.4	1875.1	1859.9
5°	1850.3	1853.8	1867.7	1872.0	1856.1
7.5°	1834.3	1839.5	1853.0	1855.0	1839.7
10°	1812.4	1821.8	1830.8	1840.5	1822.0
12.5°	1784.5	1797.2	1812.4	1814.2	1800.1
15°	1753.0	1764.7	1781.3	1792.1	1768.8
17.5°	1717.9	1729.2	1750.7	1752.6	1738.6
20°	1678.6	1692.7	1718.4	1722.9	1697.7
22.5°	1634.1	1653.0	1674.5	1678.8	1660.2
25°	1587.4	1606.9	1633.5	1639.5	1614.7
27.5°	1538.6	1557.3	1587.2	1591.5	1570.6
30°	1486.2	1503.8	1536.6	1543.8	1522.5
32.5°	1433.1	1450.7	1487.0	1493.0	1472.3
35°	1374.1	1395.6	1428.6	1438.5	1415.3
37.5°	1313.9	1334.8	1372.3	1381.3	1356.3
40°	1251.6	1272.3	1309.2	1316.7	1292.6
42.5°	1187.9	1208.7	1248.1	1249.3	1229.4
45°	1122.9	1142.8	1179.6	1180.5	1157.3
47.5°	1056.9	1077.0	1109.8	1106.1	1084.2
50°	990.1	1009.2	1037.9	1030.5	1010.8
52.5°	920.9	939.5	966.6	954.5	936.0
55°	851.4	868.6	891.3	878.4	863.9
57.5°	781.3	798.7	816.1	803.0	790.5
60°	710.6	725.8	740.1	726.8	717.2
62.5°	638.7	651.8	664.1	651.4	642.4
65°	566.0	577.6	587.7	576.0	566.4
67.5°	493.8	503.5	512.9	500.8	490.8
70°	421.5	429.9	438.5	426.0	416.8
72.5°	350.2	357.6	365.3	353.1	345.1
75°	280.9	287.3	293.6	282.8	276.6
77.5°	214.7	220.1	224.4	217.6	211.5
80°	153.1	157.2	159.8	157.0	151.4
82.5°	98.4	101.4	102.7	102.5	98.8
85°	53.5	54.5	57.0	57.6	55.7
87.5°	20.7	22.1	22.7	24.4	22.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)