

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: P488930

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-3HI-30-120-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: P488930
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-LD4-3HI-30-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

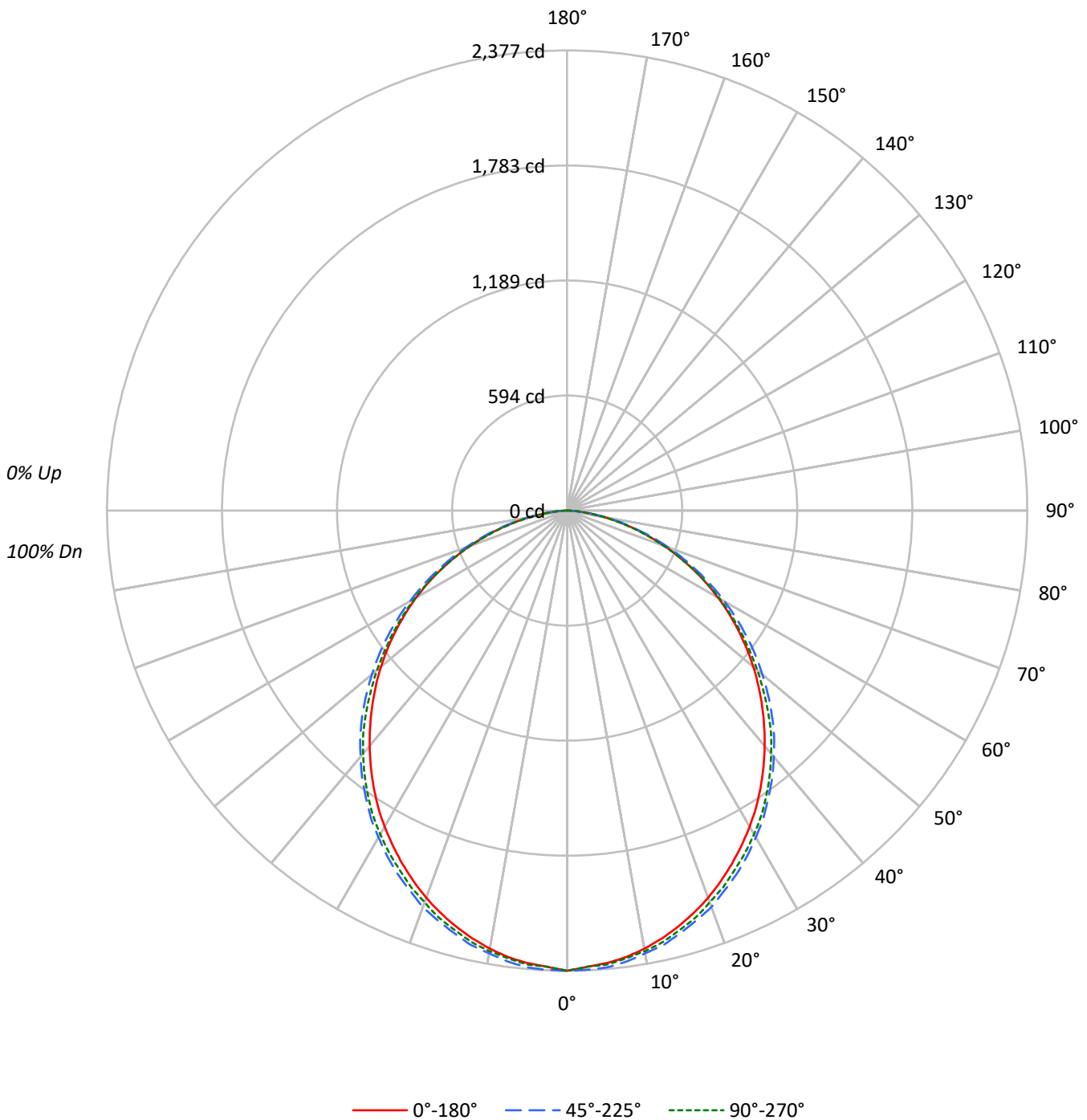
Lumens per Lamp: N/A
Luminaire Lumens: 6250.4 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
Input Voltage (V): NR
Input Current (A_{in}): 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°	6398	6398	6398
5°	6339	6398	6358
10°	6280	6344	6314
15°	6193	6293	6249
20°	6096	6241	6166
25°	5977	6151	6080
30°	5857	6055	6000
35°	5725	5952	5896
40°	5576	5832	5759
45°	5419	5693	5585
50°	5256	5511	5367
55°	5065	5303	5140
60°	4850	5051	4895
65°	4571	4746	4574
70°	4205	4375	4159
75°	3703	3871	3646
80°	3009	3140	2975
85°	2096	2232	2180



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.9	3.6
10°-20°	634.5	10.2
20°-30°	946.3	15.1
30°-40°	1121.4	17.9
40°-50°	1134.7	18.2
50°-60°	991.0	15.9
60°-70°	724.2	11.6
70°-80°	385.3	6.2
80°-90°	89.1	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°	1804.7	28.9
0°-40°	2926.1	46.8
0°-60°	5051.8	80.8
0°-90°	6250.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6250.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2377	2377	2377	2377	2377	
5°	2346	2351	2368	2374	2354	222
15°	2223	2238	2259	2273	2243	627
25°	2013	2038	2072	2079	2048	927
35°	1743	1770	1812	1824	1795	1090
45°	1424	1449	1496	1497	1468	1099
55°	1080	1102	1130	1114	1096	965
65°	718	732	745	730	718	710
75°	356	364	372	359	351	379
85°	68	69	72	73	71	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2377.4	2377.4	2377.4	2377.4	2377.4
2.5°	2358.9	2366.5	2374.5	2377.9	2358.6
5°	2346.5	2350.9	2368.5	2374.0	2353.9
7.5°	2326.2	2332.8	2349.9	2352.4	2333.1
10°	2298.4	2310.3	2321.7	2334.1	2310.6
12.5°	2263.0	2279.1	2298.4	2300.6	2282.8
15°	2223.1	2238.0	2259.0	2272.7	2243.2
17.5°	2178.5	2192.9	2220.1	2222.6	2204.8
20°	2128.7	2146.6	2179.3	2185.0	2153.0
22.5°	2072.3	2096.3	2123.5	2129.0	2105.5
25°	2013.1	2037.8	2071.5	2079.2	2047.7
27.5°	1951.1	1974.9	2012.8	2018.3	1991.8
30°	1884.8	1907.0	1948.7	1957.8	1930.8
32.5°	1817.4	1839.7	1885.7	1893.4	1867.2
35°	1742.6	1769.8	1811.7	1824.3	1794.8
37.5°	1666.3	1692.8	1740.3	1751.7	1720.0
40°	1587.3	1613.5	1660.3	1669.7	1639.3
42.5°	1506.5	1532.8	1582.8	1584.3	1559.0
45°	1424.0	1449.3	1495.9	1497.1	1467.6
47.5°	1340.3	1365.8	1407.4	1402.7	1375.0
50°	1255.6	1279.9	1316.3	1306.9	1281.9
52.5°	1167.9	1191.4	1225.9	1210.5	1187.0
55°	1079.7	1101.5	1130.3	1113.9	1095.6
57.5°	990.8	1012.8	1034.9	1018.3	1002.4
60°	901.1	920.5	938.5	921.7	909.6
62.5°	810.0	826.6	842.2	826.1	814.7
65°	717.8	732.5	745.3	730.5	718.3
67.5°	626.2	638.6	650.5	635.1	622.5
70°	534.5	545.2	556.1	540.2	528.6
72.5°	444.1	453.5	463.2	447.8	437.7
75°	356.2	364.4	372.3	358.7	350.7
77.5°	272.2	279.2	284.6	275.9	268.3
80°	194.2	199.4	202.6	199.2	192.0
82.5°	124.8	128.6	130.3	130.0	125.3
85°	67.9	69.1	72.3	73.1	70.6
87.5°	26.3	28.0	28.7	31.0	28.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)