

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: P489839

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-3LO-20-120-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: P489839
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387254)
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-P12125-LD4-3LO-20-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

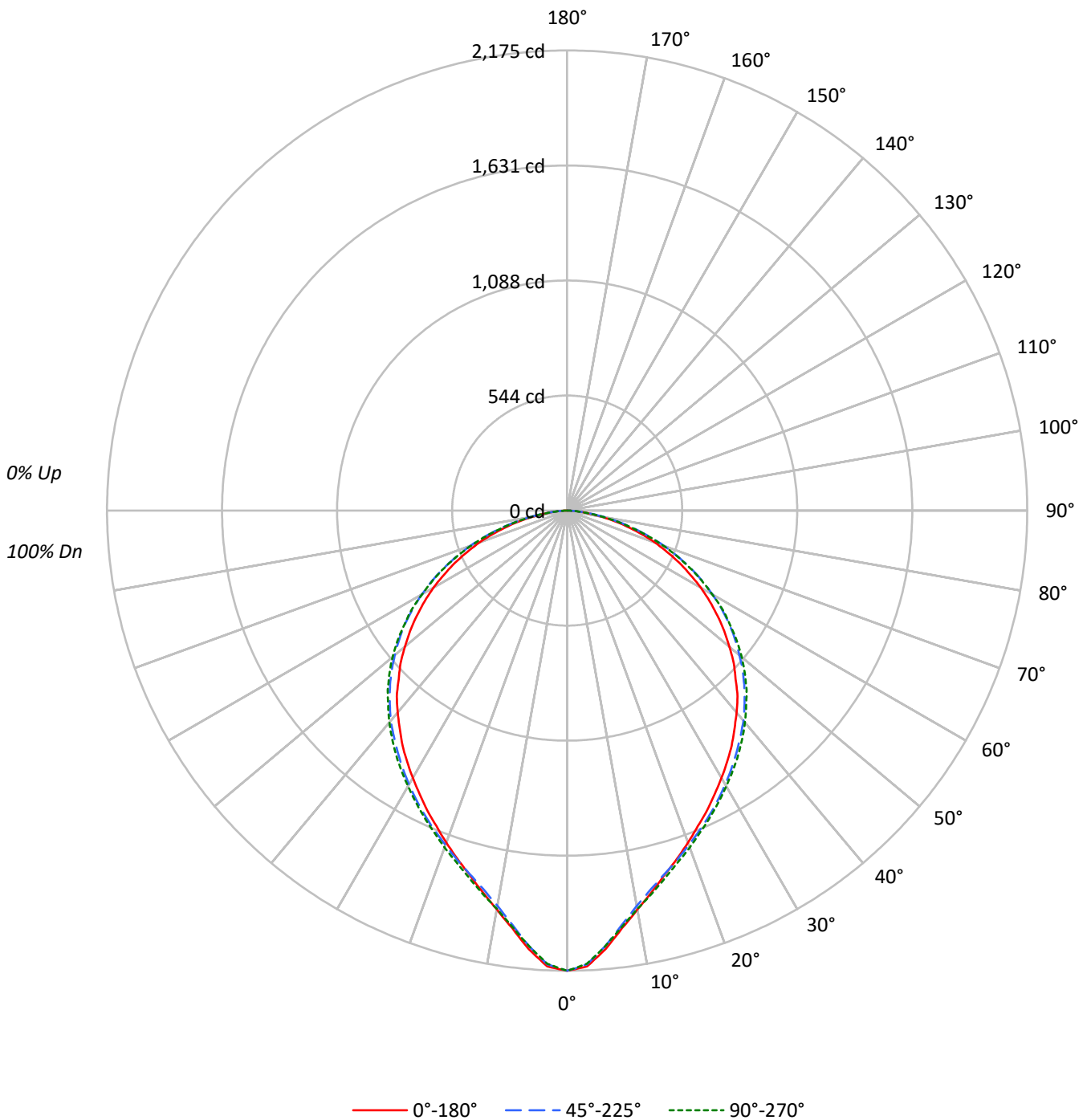
Lumens per Lamp: N/A
Luminaire Lumens: 5052.6 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2927	2927	2927
5°	2810	2790	2790
10°	2615	2592	2612
15°	2482	2477	2501
20°	2391	2408	2427
25°	2322	2360	2374
30°	2266	2322	2337
35°	2227	2293	2316
40°	2188	2277	2296
45°	2143	2255	2281
50°	2096	2227	2256
55°	2037	2194	2203
60°	1964	2134	2130
65°	1862	2052	2039
70°	1738	1914	1890
75°	1534	1695	1679
80°	1247	1382	1314
85°	865	881	848



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.2	3.8
10°-20°	503.5	10.0
20°-30°	732.1	14.5
30°-40°	871.2	17.2
40°-50°	904.6	17.9
50°-60°	819.5	16.2
60°-70°	618.4	12.2
70°-80°	336.9	6.7
80°-90°	74.0	1.5
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°	1427.8	28.3
0°-40°	2299.0	45.5
0°-60°	4023.2	79.6
0°-90°	5052.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5052.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2175	2175	2175	2175	2175	
5°	2081	2076	2066	2065	2066	193
15°	1782	1777	1778	1790	1796	503
25°	1564	1577	1590	1603	1599	721
35°	1356	1372	1396	1417	1410	848
45°	1126	1146	1185	1198	1199	871
55°	868	889	935	942	939	775
65°	585	602	645	644	640	578
75°	295	307	326	328	323	314
85°	56	56	57	56	55	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2175.2	2175.2	2175.2	2175.2	2175.2
2.5°	2156.2	2154.0	2146.9	2144.2	2143.7
5°	2080.6	2075.8	2066.0	2064.9	2066.0
7.5°	1990.4	1985.0	1975.2	1979.0	1983.9
10°	1914.3	1900.7	1896.9	1902.4	1911.6
12.5°	1846.4	1835.5	1832.2	1846.4	1852.9
15°	1781.7	1777.3	1778.4	1790.4	1795.8
17.5°	1725.7	1723.0	1730.1	1739.3	1742.0
20°	1669.7	1675.2	1681.7	1691.5	1694.7
22.5°	1614.8	1625.1	1636.1	1649.1	1644.7
25°	1564.3	1577.3	1589.8	1602.9	1599.1
27.5°	1510.5	1525.7	1543.1	1557.2	1551.8
30°	1458.8	1477.9	1494.7	1512.1	1504.0
32.5°	1407.8	1425.7	1445.8	1467.0	1457.8
35°	1356.1	1372.4	1395.8	1417.0	1409.9
37.5°	1299.1	1319.2	1345.8	1364.2	1359.4
40°	1245.8	1264.3	1296.3	1308.3	1307.2
42.5°	1192.0	1207.2	1240.9	1254.5	1252.3
45°	1126.2	1146.3	1184.9	1198.0	1199.0
47.5°	1068.0	1084.9	1126.2	1136.5	1138.7
50°	1001.2	1022.4	1063.7	1076.2	1077.8
52.5°	935.4	958.2	1000.6	1009.3	1011.0
55°	868.5	889.2	935.4	942.0	939.2
57.5°	798.5	823.5	865.9	869.1	871.8
60°	729.9	751.7	793.0	797.3	791.4
62.5°	655.5	677.8	720.2	721.3	716.4
65°	584.8	601.7	644.6	643.5	640.3
67.5°	510.9	531.6	563.1	564.2	561.5
70°	441.9	456.0	486.5	487.0	480.5
72.5°	367.4	382.6	407.1	403.8	402.2
75°	295.1	307.1	326.1	328.3	322.9
77.5°	228.8	237.5	251.7	250.0	244.0
80°	160.9	167.9	178.3	176.1	169.6
82.5°	102.7	107.1	113.6	110.9	108.2
85°	56.0	56.5	57.1	56.5	54.9
87.5°	20.7	21.2	21.2	20.7	19.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)