

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: P489806

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-2LO-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: P489806
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-LD4-2LO-30-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

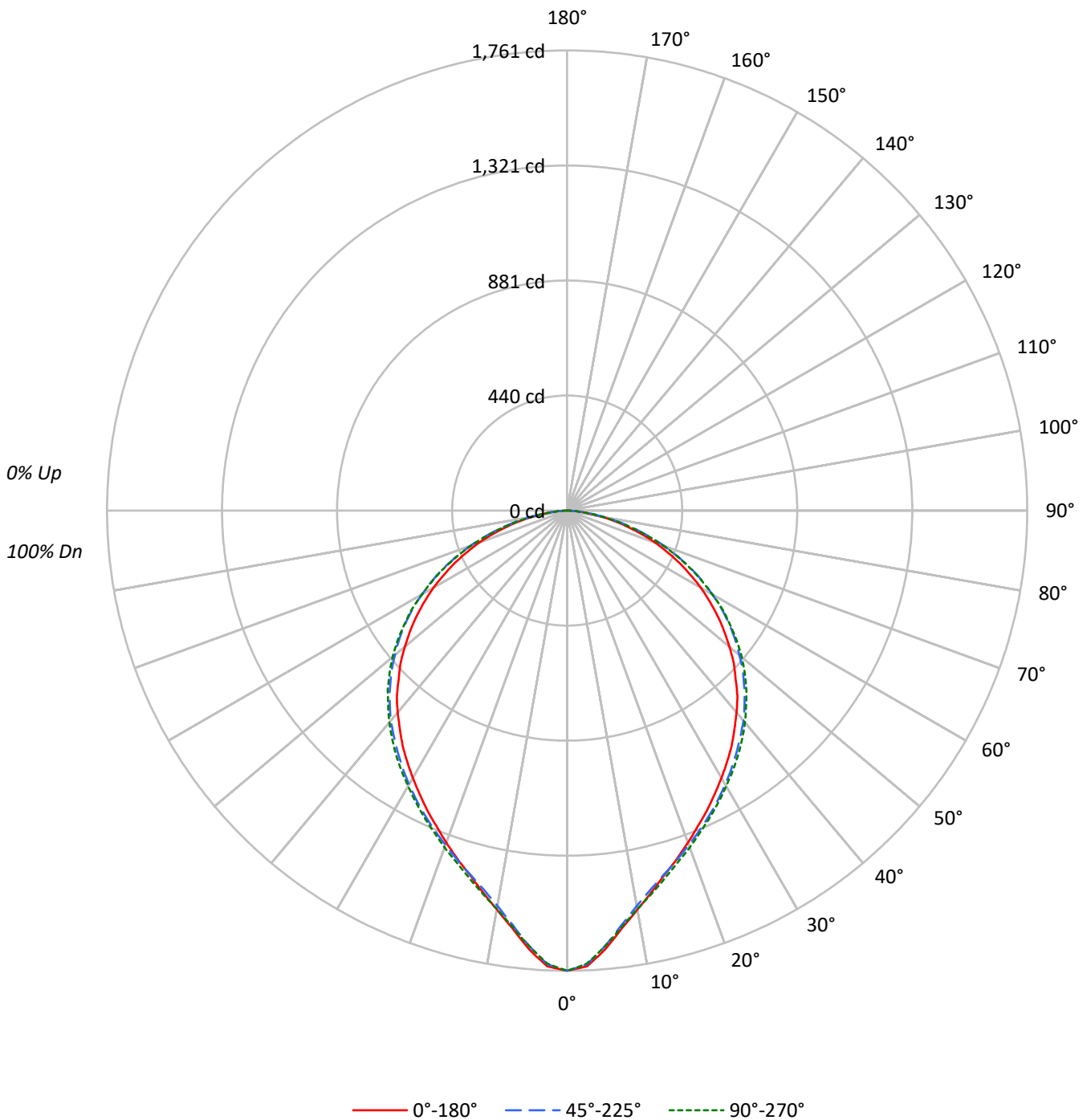
Lumens per Lamp: N/A
Luminaire Lumens: 4090.2 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	2369	2369	2369
5°	2275	2259	2259
10°	2117	2098	2114
15°	2009	2005	2025
20°	1935	1949	1964
25°	1880	1911	1922
30°	1835	1880	1892
35°	1803	1856	1875
40°	1771	1843	1859
45°	1735	1825	1847
50°	1697	1802	1826
55°	1649	1776	1784
60°	1590	1728	1724
65°	1507	1661	1650
70°	1407	1549	1530
75°	1242	1372	1359
80°	1009	1118	1064
85°	699	713	685



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.6	3.8
10°-20°	407.6	10.0
20°-30°	592.7	14.5
30°-40°	705.3	17.2
40°-50°	732.3	17.9
50°-60°	663.4	16.2
60°-70°	500.6	12.2
70°-80°	272.8	6.7
80°-90°	59.9	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°	1155.8	28.3
0°-40°	1861.1	45.5
0°-60°	3256.9	79.6
0°-90°	4090.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4090.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1761	1761	1761	1761	1761	
5°	1684	1680	1672	1672	1672	156
15°	1442	1439	1440	1449	1454	407
25°	1266	1277	1287	1298	1294	584
35°	1098	1111	1130	1147	1141	686
45°	912	928	959	970	971	705
55°	703	720	757	762	760	628
65°	473	487	522	521	518	468
75°	239	249	264	266	261	254
85°	45	46	46	46	44	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1760.9	1760.9	1760.9	1760.9	1760.9
2.5°	1745.5	1743.7	1738.0	1735.8	1735.4
5°	1684.3	1680.4	1672.4	1671.6	1672.4
7.5°	1611.3	1606.9	1599.0	1602.1	1606.0
10°	1549.7	1538.7	1535.6	1540.0	1547.5
12.5°	1494.7	1485.9	1483.2	1494.7	1500.0
15°	1442.3	1438.8	1439.7	1449.4	1453.8
17.5°	1397.0	1394.8	1400.5	1408.0	1410.2
20°	1351.7	1356.1	1361.4	1369.3	1371.9
22.5°	1307.3	1315.6	1324.4	1335.0	1331.5
25°	1266.3	1276.9	1287.0	1297.6	1294.5
27.5°	1222.8	1235.1	1249.2	1260.6	1256.2
30°	1180.9	1196.4	1210.0	1224.1	1217.5
32.5°	1139.6	1154.1	1170.4	1187.6	1180.1
35°	1097.8	1111.0	1129.9	1147.1	1141.4
37.5°	1051.6	1067.9	1089.4	1104.4	1100.5
40°	1008.5	1023.5	1049.4	1059.1	1058.2
42.5°	964.9	977.3	1004.5	1015.5	1013.8
45°	911.7	928.0	959.2	969.8	970.6
47.5°	864.6	878.3	911.7	920.0	921.8
50°	810.5	827.7	861.1	871.2	872.5
52.5°	757.2	775.7	810.0	817.1	818.4
55°	703.1	719.8	757.2	762.5	760.3
57.5°	646.4	666.6	700.9	703.6	705.8
60°	590.9	608.5	642.0	645.5	640.6
62.5°	530.7	548.7	583.0	583.9	579.9
65°	473.4	487.1	521.8	521.0	518.3
67.5°	413.6	430.3	455.8	456.7	454.5
70°	357.7	369.2	393.8	394.2	389.0
72.5°	297.5	309.8	329.5	326.9	325.6
75°	238.9	248.6	264.0	265.8	261.4
77.5°	185.2	192.3	203.7	202.4	197.6
80°	130.2	136.0	144.3	142.6	137.3
82.5°	83.1	86.7	92.0	89.8	87.6
85°	45.3	45.7	46.2	45.7	44.4
87.5°	16.7	17.2	17.2	16.7	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)