

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: P489805

Luminaire Tested: **CLM-24-4-INS-P12125-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: P489805
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-27-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

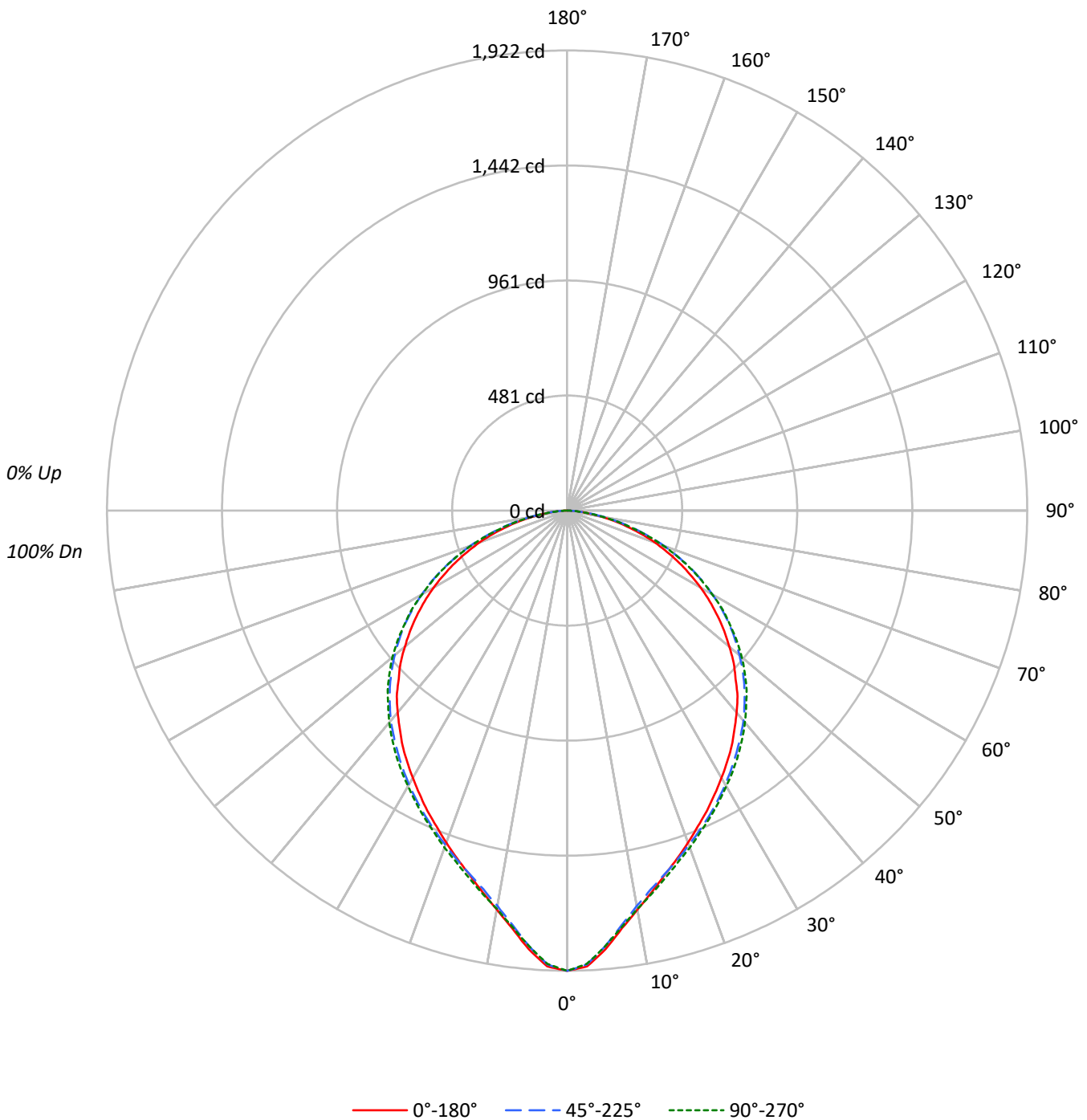
Lumens per Lamp: N/A
Luminaire Lumens: 4465.6 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2587	2587	2587
5°	2484	2466	2466
10°	2312	2291	2308
15°	2193	2189	2211
20°	2113	2128	2145
25°	2053	2086	2098
30°	2003	2053	2065
35°	1969	2026	2047
40°	1934	2012	2029
45°	1894	1993	2016
50°	1852	1968	1994
55°	1801	1939	1947
60°	1736	1886	1882
65°	1646	1814	1802
70°	1536	1691	1671
75°	1356	1498	1483
80°	1102	1221	1161
85°	764	778	749



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.9	3.8
10°-20°	445.0	10.0
20°-30°	647.1	14.5
30°-40°	770.0	17.2
40°-50°	799.5	17.9
50°-60°	724.3	16.2
60°-70°	546.6	12.2
70°-80°	297.8	6.7
80°-90°	65.4	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°	1261.9	28.3
0°-40°	2031.9	45.5
0°-60°	3555.8	79.6
0°-90°	4465.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4465.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1922	1922	1922	1922	1922	
5°	1839	1835	1826	1825	1826	171
15°	1575	1571	1572	1582	1587	444
25°	1383	1394	1405	1417	1413	637
35°	1199	1213	1234	1252	1246	749
45°	995	1013	1047	1059	1060	769
55°	768	786	827	832	830	685
65°	517	532	570	569	566	511
75°	261	271	288	290	285	278
85°	50	50	50	50	48	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1922.5	1922.5	1922.5	1922.5	1922.5
2.5°	1905.7	1903.8	1897.5	1895.1	1894.6
5°	1838.9	1834.6	1825.9	1825.0	1825.9
7.5°	1759.2	1754.4	1745.7	1749.1	1753.4
10°	1691.9	1679.9	1676.5	1681.3	1689.5
12.5°	1631.9	1622.3	1619.4	1631.9	1637.7
15°	1574.7	1570.8	1571.8	1582.4	1587.2
17.5°	1525.2	1522.8	1529.1	1537.2	1539.7
20°	1475.7	1480.6	1486.3	1495.0	1497.8
22.5°	1427.2	1436.3	1446.0	1457.5	1453.7
25°	1382.6	1394.1	1405.1	1416.7	1413.3
27.5°	1335.0	1348.4	1363.8	1376.3	1371.5
30°	1289.3	1306.2	1321.1	1336.4	1329.2
32.5°	1244.2	1260.1	1277.8	1296.6	1288.4
35°	1198.6	1213.0	1233.6	1252.4	1246.1
37.5°	1148.1	1165.9	1189.4	1205.8	1201.5
40°	1101.1	1117.4	1145.7	1156.3	1155.3
42.5°	1053.5	1067.0	1096.7	1108.7	1106.8
45°	995.4	1013.1	1047.2	1058.8	1059.7
47.5°	944.0	958.9	995.4	1004.5	1006.4
50°	884.9	903.6	940.1	951.1	952.6
52.5°	826.7	846.9	884.4	892.1	893.5
55°	767.6	785.9	826.7	832.5	830.1
57.5°	705.7	727.8	765.3	768.1	770.5
60°	645.1	664.4	700.9	704.7	699.4
62.5°	579.4	599.0	636.5	637.5	633.1
65°	516.9	531.8	569.7	568.8	565.9
67.5°	451.5	469.8	497.7	498.6	496.3
70°	390.5	403.0	429.9	430.4	424.7
72.5°	324.8	338.2	359.8	356.9	355.5
75°	260.8	271.4	288.2	290.2	285.3
77.5°	202.3	209.9	222.4	221.0	215.7
80°	142.2	148.4	157.6	155.7	149.9
82.5°	90.8	94.7	100.4	98.0	95.6
85°	49.5	49.9	50.4	49.9	48.5
87.5°	18.3	18.7	18.7	18.3	16.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)