

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: P489810

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-2LO-40-120-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: P489810
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-40-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

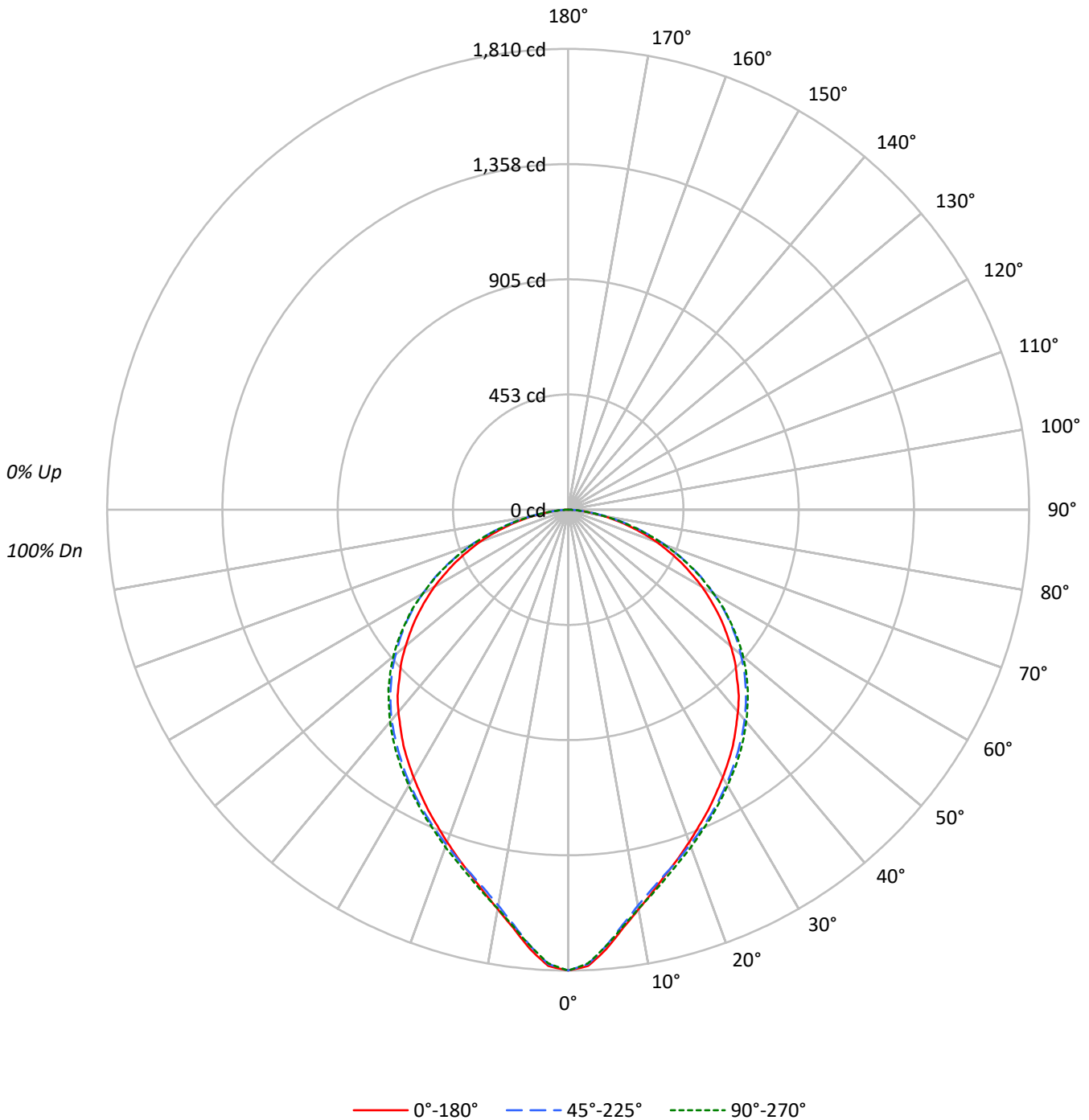
Lumens per Lamp: N/A
Luminaire Lumens: 4203.7 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2435	2435	2435
5°	2338	2322	2322
10°	2176	2156	2173
15°	2065	2061	2081
20°	1989	2003	2019
25°	1932	1964	1975
30°	1886	1932	1944
35°	1853	1907	1927
40°	1821	1894	1910
45°	1783	1876	1898
50°	1744	1852	1877
55°	1695	1825	1833
60°	1634	1776	1772
65°	1549	1707	1696
70°	1446	1592	1573
75°	1277	1410	1396
80°	1037	1149	1093
85°	719	733	706



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.9	3.8
10°-20°	418.9	10.0
20°-30°	609.1	14.5
30°-40°	724.8	17.2
40°-50°	752.6	17.9
50°-60°	681.8	16.2
60°-70°	514.5	12.2
70°-80°	280.3	6.7
80°-90°	61.6	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°	1187.9	28.3
0°-40°	1912.8	45.5
0°-60°	3347.2	79.6
0°-90°	4203.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4203.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1810	1810	1810	1810	1810	
5°	1731	1727	1719	1718	1719	161
15°	1482	1479	1480	1490	1494	418
25°	1302	1312	1323	1334	1330	600
35°	1128	1142	1161	1179	1173	705
45°	937	954	986	997	998	724
55°	723	740	778	784	781	645
65°	487	501	536	535	533	481
75°	246	256	271	273	269	262
85°	47	47	48	47	46	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1809.8	1809.8	1809.8	1809.8	1809.8
2.5°	1793.9	1792.1	1786.2	1784.0	1783.5
5°	1731.1	1727.0	1718.9	1718.0	1718.9
7.5°	1656.0	1651.5	1643.4	1646.5	1650.6
10°	1592.7	1581.4	1578.2	1582.7	1590.4
12.5°	1536.1	1527.1	1524.4	1536.1	1541.6
15°	1482.3	1478.7	1479.6	1489.6	1494.1
17.5°	1435.8	1433.5	1439.4	1447.1	1449.4
20°	1389.2	1393.7	1399.2	1407.3	1410.0
22.5°	1343.5	1352.1	1361.2	1372.0	1368.4
25°	1301.5	1312.3	1322.7	1333.6	1330.4
27.5°	1256.7	1269.3	1283.8	1295.6	1291.1
30°	1213.7	1229.6	1243.6	1258.0	1251.3
32.5°	1171.2	1186.2	1202.9	1220.5	1212.8
35°	1128.3	1141.8	1161.3	1178.9	1173.1
37.5°	1080.8	1097.5	1119.7	1135.0	1131.0
40°	1036.5	1051.9	1078.5	1088.5	1087.6
42.5°	991.7	1004.4	1032.4	1043.7	1041.9
45°	937.0	953.7	985.8	996.7	997.6
47.5°	888.6	902.6	937.0	945.6	947.4
50°	833.0	850.6	885.0	895.4	896.7
52.5°	778.2	797.2	832.5	839.7	841.1
55°	722.6	739.8	778.2	783.7	781.4
57.5°	664.3	685.1	720.4	723.1	725.3
60°	607.3	625.4	659.8	663.4	658.4
62.5°	545.4	563.9	599.2	600.1	596.0
65°	486.6	500.6	536.3	535.4	532.7
67.5°	425.1	442.2	468.5	469.4	467.2
70°	367.6	379.4	404.7	405.2	399.8
72.5°	305.7	318.4	338.7	336.0	334.7
75°	245.6	255.5	271.3	273.1	268.6
77.5°	190.4	197.6	209.4	208.0	203.0
80°	133.8	139.7	148.3	146.5	141.1
82.5°	85.5	89.1	94.5	92.3	90.0
85°	46.6	47.0	47.5	47.0	45.7
87.5°	17.2	17.6	17.6	17.2	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)