

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: P489765

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-1HI-50-120-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: P489765
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-LD4-1HI-50-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

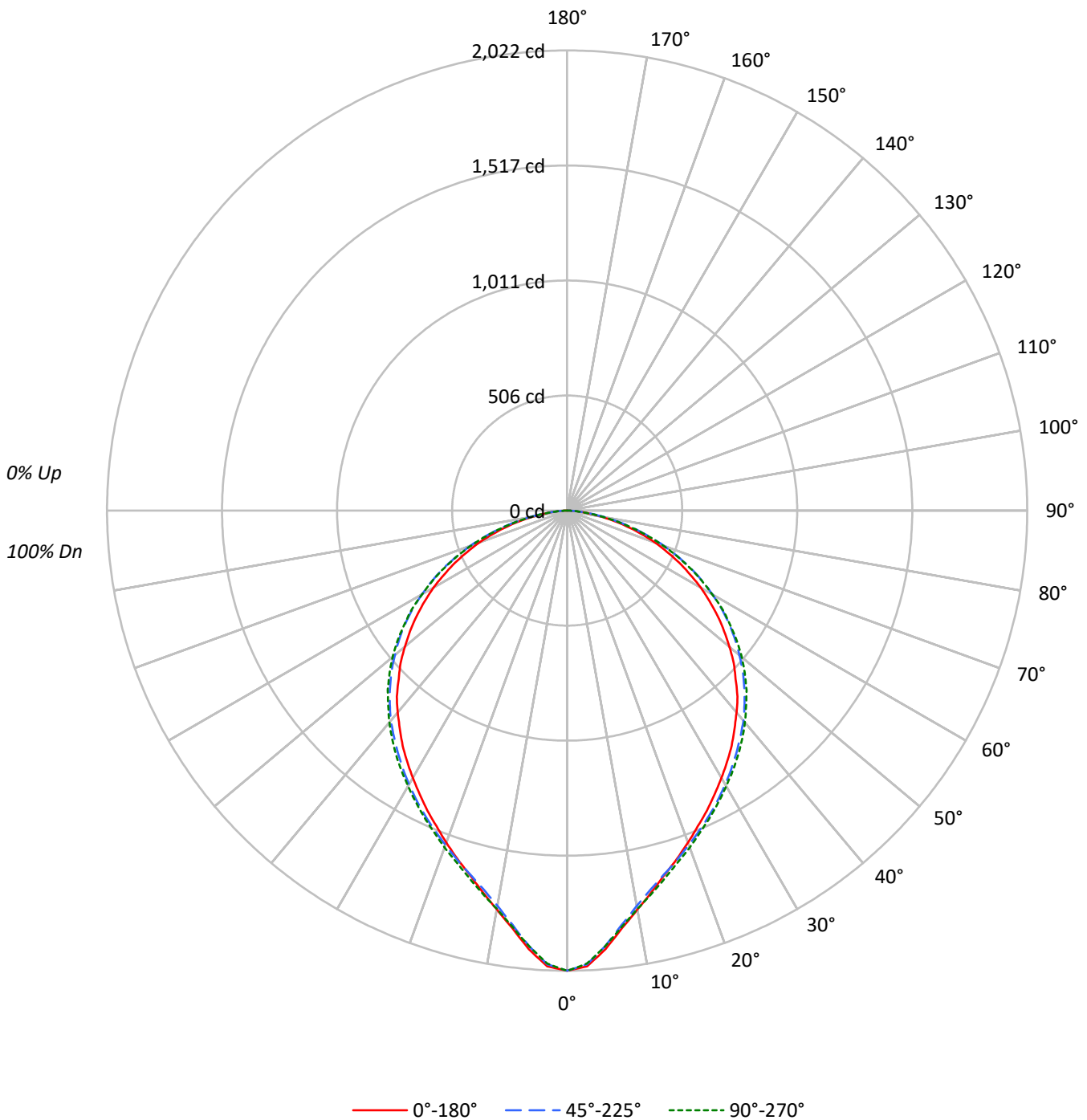
Lumens per Lamp: N/A
Luminaire Lumens: 4696.5 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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°	2720	2720	2720
5°	2612	2594	2594
10°	2431	2409	2428
15°	2307	2303	2325
20°	2222	2238	2256
25°	2159	2194	2207
30°	2107	2159	2172
35°	2070	2131	2153
40°	2034	2116	2134
45°	1992	2096	2121
50°	1948	2070	2097
55°	1894	2040	2048
60°	1826	1984	1979
65°	1731	1908	1895
70°	1616	1779	1757
75°	1426	1576	1560
80°	1158	1284	1221
85°	803	818	787



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.7	3.8
10°-20°	468.0	10.0
20°-30°	680.5	14.5
30°-40°	809.8	17.2
40°-50°	840.9	17.9
50°-60°	761.8	16.2
60°-70°	574.8	12.2
70°-80°	313.2	6.7
80°-90°	68.8	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°	1327.2	28.3
0°-40°	2137.0	45.5
0°-60°	3739.6	79.6
0°-90°	4696.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4696.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2022	2022	2022	2022	2022	
5°	1934	1930	1920	1919	1920	179
15°	1656	1652	1653	1664	1669	467
25°	1454	1466	1478	1490	1486	670
35°	1260	1276	1297	1317	1311	788
45°	1047	1066	1101	1114	1114	809
55°	807	826	870	876	873	721
65°	544	559	599	598	595	537
75°	274	286	303	305	300	292
85°	52	52	53	52	51	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2021.9	2021.9	2021.9	2021.9	2021.9
2.5°	2004.2	2002.2	1995.6	1993.1	1992.6
5°	1934.0	1929.5	1920.4	1919.4	1920.4
7.5°	1850.1	1845.1	1836.0	1839.5	1844.1
10°	1779.4	1766.8	1763.2	1768.3	1776.9
12.5°	1716.2	1706.1	1703.1	1716.2	1722.3
15°	1656.1	1652.1	1653.1	1664.2	1669.2
17.5°	1604.1	1601.6	1608.1	1616.7	1619.3
20°	1552.1	1557.1	1563.2	1572.3	1575.3
22.5°	1501.0	1510.6	1520.7	1532.9	1528.8
25°	1454.0	1466.2	1477.8	1489.9	1486.4
27.5°	1404.0	1418.1	1434.3	1447.5	1442.4
30°	1356.0	1373.7	1389.4	1405.5	1398.0
32.5°	1308.5	1325.2	1343.9	1363.6	1355.0
35°	1260.5	1275.7	1297.4	1317.1	1310.6
37.5°	1207.5	1226.2	1250.9	1268.1	1263.6
40°	1158.0	1175.2	1205.0	1216.1	1215.1
42.5°	1108.0	1122.1	1153.4	1166.1	1164.0
45°	1046.8	1065.5	1101.4	1113.5	1114.5
47.5°	992.8	1008.4	1046.8	1056.4	1058.4
50°	930.6	950.3	988.7	1000.3	1001.9
52.5°	869.5	890.7	930.1	938.2	939.7
55°	807.3	826.5	869.5	875.6	873.0
57.5°	742.2	765.4	804.8	807.8	810.4
60°	678.5	698.7	737.1	741.2	735.6
62.5°	609.3	630.0	669.4	670.4	665.9
65°	543.6	559.3	599.2	598.2	595.1
67.5°	474.9	494.1	523.4	524.4	521.9
70°	410.7	423.9	452.2	452.7	446.6
72.5°	341.5	355.7	378.4	375.4	373.9
75°	274.3	285.5	303.2	305.2	300.1
77.5°	212.7	220.8	233.9	232.4	226.8
80°	149.5	156.1	165.7	163.7	157.6
82.5°	95.5	99.5	105.6	103.1	100.5
85°	52.0	52.5	53.0	52.5	51.0
87.5°	19.2	19.7	19.7	19.2	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)