

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: P489429

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-1STD-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: P489429
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-115-8)
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-A12125-LD4-1STD-50-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

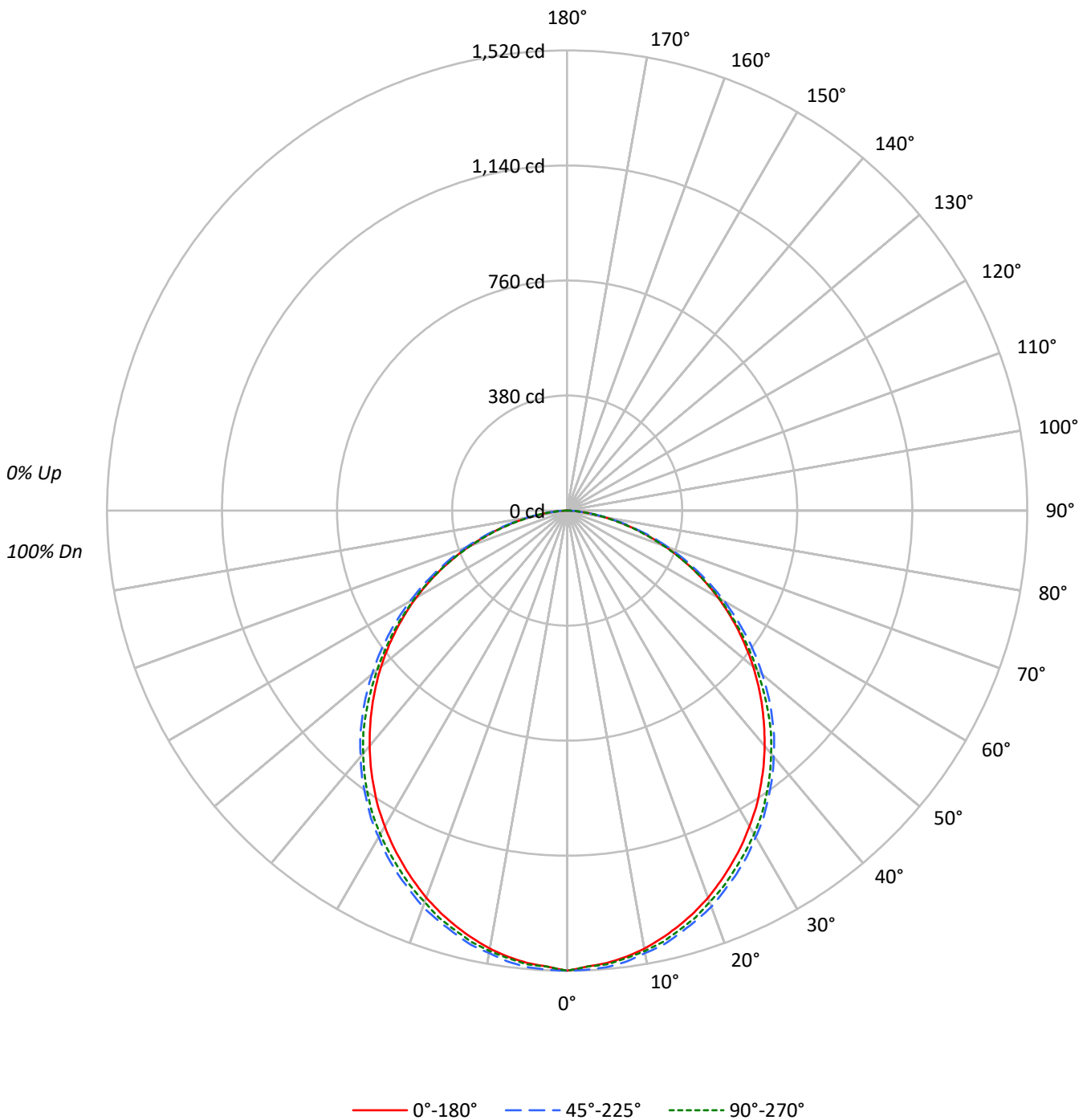
Lumens per Lamp: N/A
Luminaire Lumens: 3995.6 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2045	2045	2045
5°	2026	2045	2032
10°	2007	2028	2018
15°	1980	2012	1997
20°	1948	1995	1971
25°	1911	1966	1943
30°	1872	1935	1918
35°	1830	1902	1885
40°	1782	1864	1841
45°	1732	1819	1785
50°	1680	1761	1715
55°	1619	1695	1643
60°	1550	1615	1565
65°	1461	1517	1462
70°	1344	1399	1329
75°	1184	1237	1166
80°	962	1003	951
85°	670	713	696



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.1	3.6
10°-20°	405.6	10.2
20°-30°	604.9	15.1
30°-40°	716.9	17.9
40°-50°	725.4	18.2
50°-60°	633.5	15.9
60°-70°	462.9	11.6
70°-80°	246.3	6.2
80°-90°	56.9	1.4
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°	1153.7	28.9
0°-40°	1870.6	46.8
0°-60°	3229.4	80.8
0°-90°	3995.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3995.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1520	1520	1520	1520	1520	
5°	1500	1503	1514	1518	1505	142
15°	1421	1431	1444	1453	1434	401
25°	1287	1303	1324	1329	1309	593
35°	1114	1131	1158	1166	1147	697
45°	910	926	956	957	938	702
55°	690	704	722	712	700	617
65°	459	468	476	467	459	454
75°	228	233	238	229	224	242
85°	43	44	46	47	45	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1519.8	1519.8	1519.8	1519.8	1519.8
2.5°	1507.9	1512.8	1517.9	1520.1	1507.7
5°	1500.0	1502.8	1514.1	1517.6	1504.7
7.5°	1487.0	1491.3	1502.2	1503.8	1491.4
10°	1469.3	1476.9	1484.2	1492.1	1477.0
12.5°	1446.6	1456.9	1469.3	1470.7	1459.3
15°	1421.1	1430.6	1444.1	1452.8	1434.0
17.5°	1392.6	1401.8	1419.2	1420.8	1409.4
20°	1360.8	1372.2	1393.1	1396.8	1376.3
22.5°	1324.7	1340.1	1357.5	1361.0	1345.9
25°	1286.9	1302.7	1324.2	1329.1	1309.0
27.5°	1247.3	1262.5	1286.7	1290.2	1273.2
30°	1204.8	1219.1	1245.7	1251.5	1234.3
32.5°	1161.8	1176.0	1205.5	1210.4	1193.6
35°	1113.9	1131.4	1158.1	1166.2	1147.4
37.5°	1065.2	1082.1	1112.5	1119.8	1099.5
40°	1014.7	1031.5	1061.4	1067.4	1047.9
42.5°	963.0	979.8	1011.8	1012.8	996.6
45°	910.3	926.5	956.2	957.0	938.2
47.5°	856.8	873.1	899.7	896.7	879.0
50°	802.6	818.2	841.4	835.4	819.4
52.5°	746.6	761.6	783.6	773.8	758.8
55°	690.2	704.2	722.5	712.1	700.4
57.5°	633.4	647.5	661.6	651.0	640.8
60°	576.1	588.4	600.0	589.2	581.4
62.5°	517.8	528.4	538.4	528.1	520.8
65°	458.9	468.2	476.5	467.0	459.2
67.5°	400.3	408.2	415.8	406.0	397.9
70°	341.7	348.5	355.5	345.3	337.9
72.5°	283.9	289.9	296.1	286.3	279.8
75°	227.7	232.9	238.0	229.3	224.2
77.5°	174.0	178.5	181.9	176.4	171.5
80°	124.1	127.5	129.5	127.3	122.7
82.5°	79.8	82.2	83.3	83.1	80.1
85°	43.4	44.2	46.2	46.7	45.1
87.5°	16.8	17.9	18.4	19.8	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)