

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: P488889

Luminaire Tested: **CLM-24-2-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: P488889
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-24-2-INS-A12125-LD4-1STD-50-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

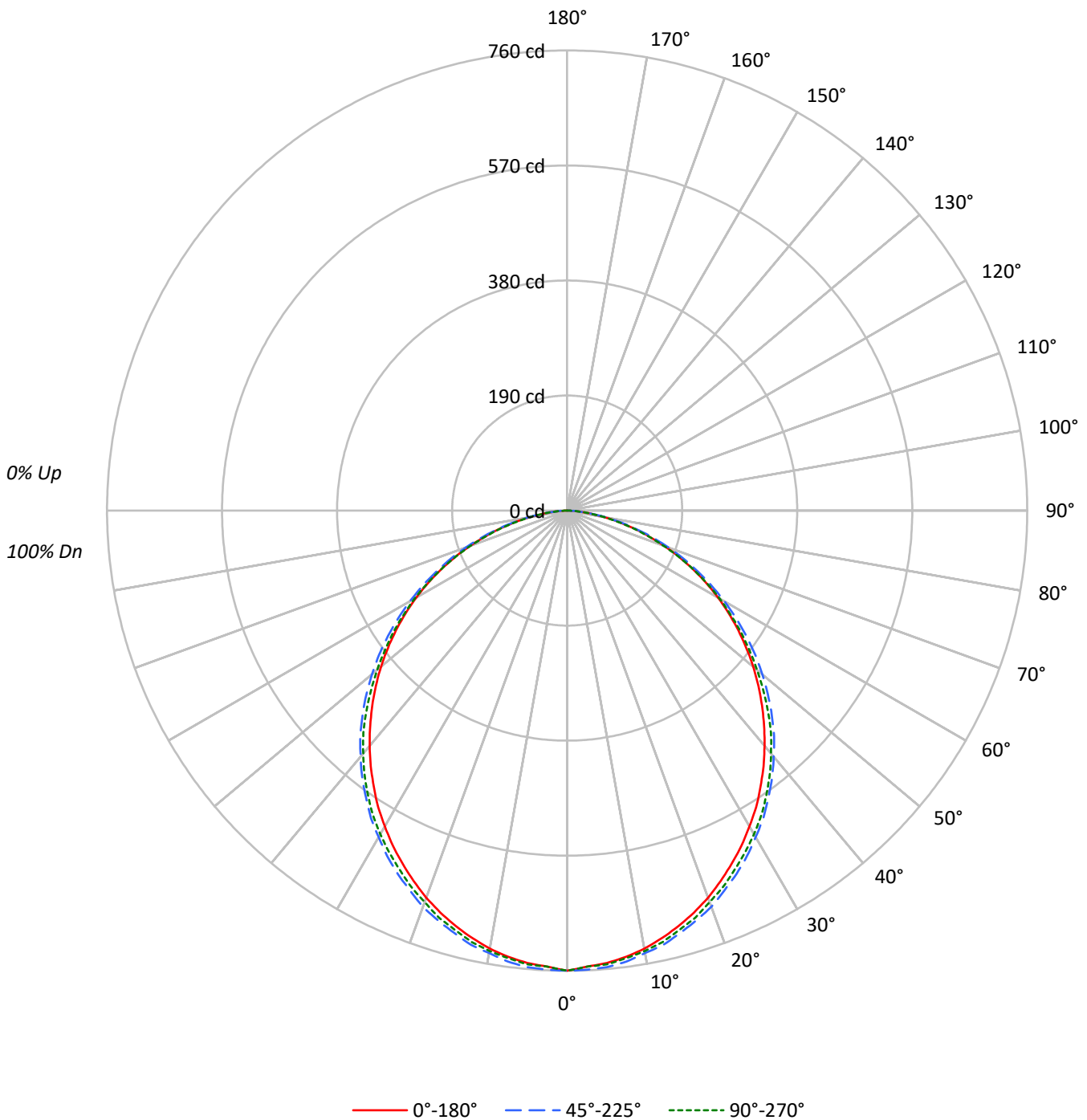
Lumens per Lamp: N/A
Luminaire Lumens: 1997.7 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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°	1979	2011	1997
20°	1948	1995	1970
25°	1910	1966	1943
30°	1872	1935	1917
35°	1829	1902	1885
40°	1782	1864	1840
45°	1732	1819	1785
50°	1680	1761	1715
55°	1619	1695	1643
60°	1550	1615	1565
65°	1461	1517	1462
70°	1344	1398	1329
75°	1183	1237	1166
80°	962	1004	951
85°	670	713	698



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.6	3.6
10°-20°	202.8	10.2
20°-30°	302.5	15.1
30°-40°	358.4	17.9
40°-50°	362.7	18.2
50°-60°	316.7	15.9
60°-70°	231.5	11.6
70°-80°	123.1	6.2
80°-90°	28.5	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°	576.8	28.9
0°-40°	935.2	46.8
0°-60°	1614.6	80.8
0°-90°	1997.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1997.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	760	760	760	760	760	
5°	750	751	757	759	752	71
15°	710	715	722	726	717	200
25°	643	651	662	664	654	296
35°	557	566	579	583	574	348
45°	455	463	478	478	469	351
55°	345	352	361	356	350	308
65°	229	234	238	234	230	227
75°	114	116	119	115	112	121
85°	22	22	23	23	23	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	759.9	759.9	759.9	759.9	759.9
2.5°	753.9	756.4	758.9	760.0	753.8
5°	750.0	751.4	757.0	758.7	752.3
7.5°	743.5	745.6	751.1	751.9	745.7
10°	734.6	738.4	742.0	746.0	738.5
12.5°	723.3	728.4	734.6	735.3	729.6
15°	710.5	715.3	722.0	726.4	716.9
17.5°	696.3	700.9	709.6	710.4	704.7
20°	680.4	686.1	696.5	698.3	688.1
22.5°	662.3	670.0	678.7	680.4	672.9
25°	643.4	651.3	662.1	664.5	654.5
27.5°	623.6	631.2	643.3	645.1	636.6
30°	602.4	609.5	622.8	625.7	617.1
32.5°	580.9	588.0	602.7	605.2	596.8
35°	556.9	565.7	579.0	583.1	573.7
37.5°	532.6	541.0	556.2	559.9	549.7
40°	507.3	515.7	530.7	533.7	523.9
42.5°	481.5	489.9	505.9	506.4	498.3
45°	455.1	463.2	478.1	478.5	469.1
47.5°	428.4	436.5	449.8	448.3	439.5
50°	401.3	409.1	420.7	417.7	409.7
52.5°	373.3	380.8	391.8	386.9	379.4
55°	345.1	352.1	361.2	356.0	350.2
57.5°	316.7	323.7	330.8	325.5	320.4
60°	288.0	294.2	300.0	294.6	290.7
62.5°	258.9	264.2	269.2	264.0	260.4
65°	229.4	234.1	238.2	233.5	229.6
67.5°	200.1	204.1	207.9	203.0	198.9
70°	170.8	174.2	177.7	172.7	168.9
72.5°	141.9	145.0	148.0	143.1	139.9
75°	113.8	116.5	119.0	114.6	112.1
77.5°	87.0	89.2	91.0	88.2	85.7
80°	62.1	63.7	64.8	63.7	61.4
82.5°	39.9	41.1	41.6	41.6	40.1
85°	21.7	22.1	23.1	23.4	22.6
87.5°	8.4	8.9	9.2	9.9	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)