

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: P489020

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-5LO-50-120-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: P489020
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-LD4-5LO-50-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

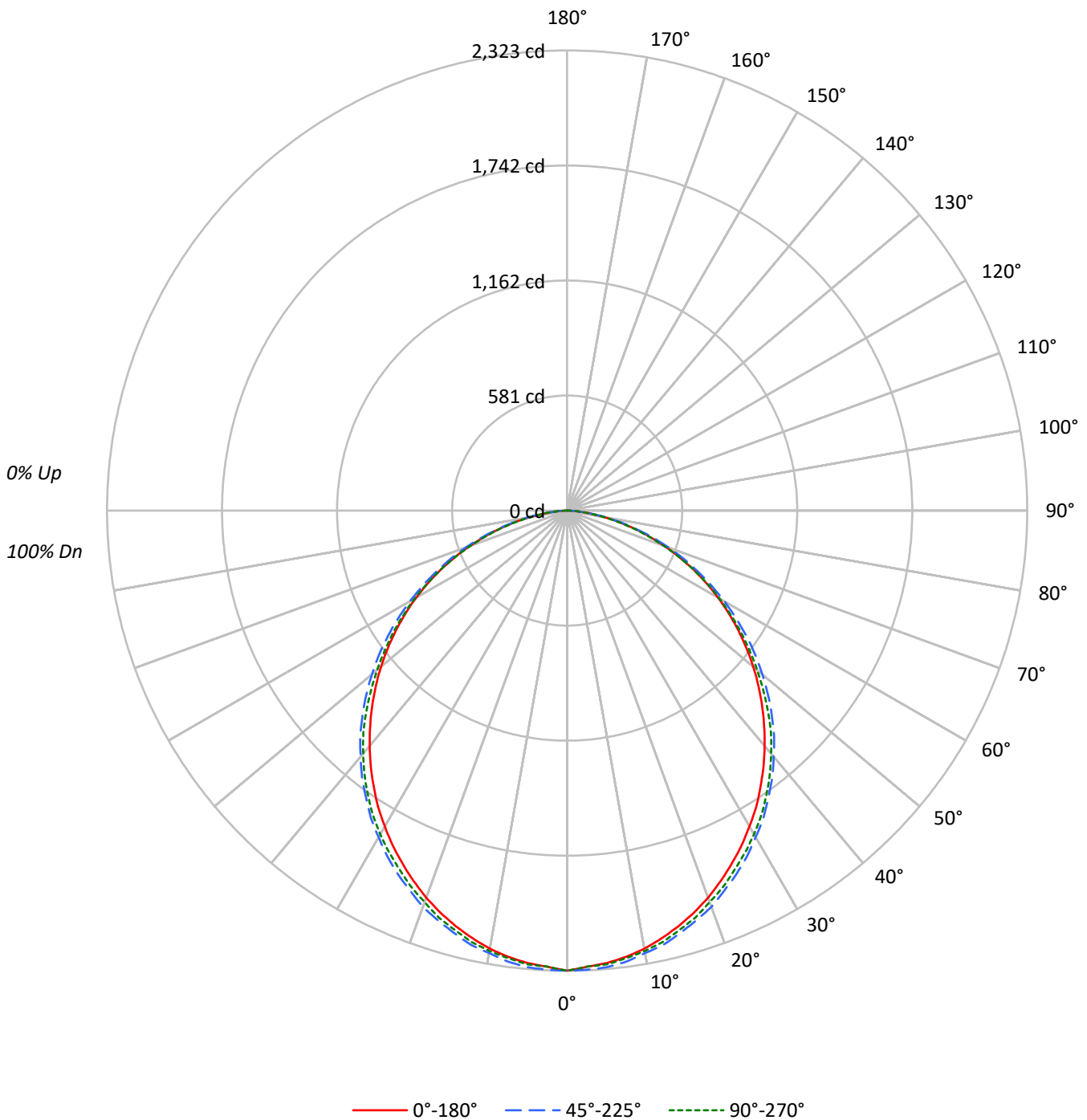
Lumens per Lamp: N/A
Luminaire Lumens: 6106.6 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 58.5
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°	6250	6250	6250
5°	6193	6251	6212
10°	6136	6198	6168
15°	6051	6149	6106
20°	5956	6097	6024
25°	5839	6009	5940
30°	5722	5916	5862
35°	5593	5815	5760
40°	5447	5698	5626
45°	5295	5562	5457
50°	5135	5384	5243
55°	4949	5181	5022
60°	4738	4935	4782
65°	4465	4637	4469
70°	4109	4275	4063
75°	3618	3781	3563
80°	2940	3068	2907
85°	2047	2183	2130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.8	3.6
10°-20°	619.9	10.2
20°-30°	924.6	15.1
30°-40°	1095.6	17.9
40°-50°	1108.6	18.2
50°-60°	968.2	15.9
60°-70°	707.5	11.6
70°-80°	376.4	6.2
80°-90°	87.0	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°	1763.2	28.9
0°-40°	2858.8	46.8
0°-60°	4935.6	80.8
0°-90°	6106.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6106.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2323	2323	2323	2323	2323	
5°	2292	2297	2314	2319	2300	217
15°	2172	2186	2207	2220	2192	612
25°	1967	1991	2024	2031	2001	906
35°	1702	1729	1770	1782	1754	1065
45°	1391	1416	1461	1463	1434	1073
55°	1055	1076	1104	1088	1070	943
65°	701	716	728	714	702	694
75°	348	356	364	350	343	370
85°	66	68	71	71	69	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2322.7	2322.7	2322.7	2322.7	2322.7
2.5°	2304.6	2312.1	2319.8	2323.2	2304.3
5°	2292.5	2296.8	2314.0	2319.3	2299.7
7.5°	2272.6	2279.2	2295.9	2298.3	2279.4
10°	2245.5	2257.2	2268.3	2280.4	2257.4
12.5°	2210.9	2226.7	2245.5	2247.7	2230.3
15°	2172.0	2186.5	2207.1	2220.4	2191.6
17.5°	2128.4	2142.4	2169.1	2171.5	2154.1
20°	2079.8	2097.2	2129.1	2134.7	2103.5
22.5°	2024.6	2048.1	2074.7	2080.0	2057.0
25°	1966.7	1990.9	2023.9	2031.4	2000.6
27.5°	1906.2	1929.5	1966.5	1971.8	1945.9
30°	1841.4	1863.2	1903.8	1912.8	1886.4
32.5°	1775.6	1797.3	1842.4	1849.9	1824.2
35°	1702.5	1729.1	1770.0	1782.3	1753.5
37.5°	1627.9	1653.8	1700.3	1711.4	1680.5
40°	1550.7	1576.4	1622.1	1631.3	1601.6
42.5°	1471.9	1497.5	1546.4	1547.8	1523.2
45°	1391.3	1416.0	1461.4	1462.7	1433.9
47.5°	1309.5	1334.4	1375.1	1370.5	1343.4
50°	1226.7	1250.4	1286.0	1276.8	1252.4
52.5°	1141.0	1164.0	1197.7	1182.7	1159.7
55°	1054.9	1076.2	1104.3	1088.3	1070.4
57.5°	968.0	989.5	1011.1	994.9	979.4
60°	880.4	899.3	916.9	900.5	888.6
62.5°	791.3	807.6	822.8	807.1	795.9
65°	701.3	715.6	728.2	713.7	701.8
67.5°	611.8	623.9	635.5	620.5	608.2
70°	522.2	532.6	543.3	527.8	516.4
72.5°	433.9	443.1	452.5	437.5	427.6
75°	348.0	356.0	363.7	350.4	342.7
77.5°	266.0	272.7	278.1	269.6	262.1
80°	189.7	194.8	198.0	194.6	187.6
82.5°	122.0	125.6	127.3	127.1	122.5
85°	66.3	67.5	70.7	71.4	69.0
87.5°	25.7	27.3	28.1	30.3	27.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)