

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: P489018

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-5LO-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: P489018
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-40-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

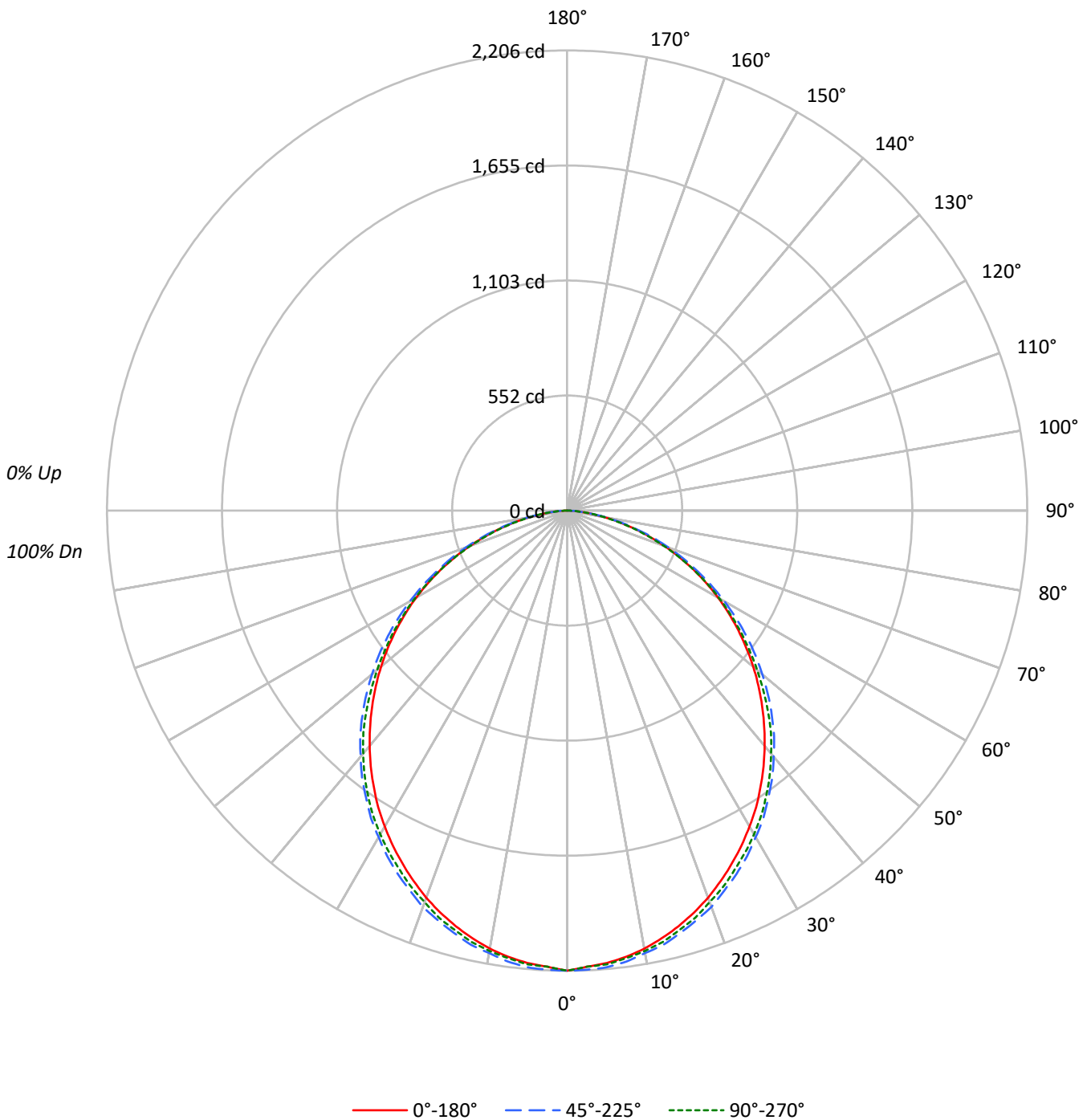
Lumens per Lamp: N/A
Luminaire Lumens: 5799.3 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	5936	5936	5936
5°	5881	5936	5900
10°	5827	5886	5858
15°	5746	5839	5798
20°	5656	5790	5720
25°	5546	5707	5641
30°	5434	5618	5567
35°	5311	5522	5471
40°	5173	5412	5343
45°	5028	5282	5182
50°	4877	5113	4979
55°	4700	4920	4769
60°	4500	4687	4542
65°	4241	4403	4244
70°	3902	4060	3858
75°	3436	3591	3383
80°	2793	2913	2760
85°	1945	2072	2022



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.7	3.6
10°-20°	588.7	10.2
20°-30°	878.0	15.1
30°-40°	1040.5	17.9
40°-50°	1052.8	18.2
50°-60°	919.5	15.9
60°-70°	671.9	11.6
70°-80°	357.5	6.2
80°-90°	82.6	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°	1674.5	28.9
0°-40°	2715.0	46.8
0°-60°	4687.2	80.8
0°-90°	5799.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5799.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2206	2206	2206	2206	2206	
5°	2177	2181	2198	2203	2184	206
15°	2063	2076	2096	2109	2081	581
25°	1868	1891	1922	1929	1900	860
35°	1617	1642	1681	1693	1665	1011
45°	1321	1345	1388	1389	1362	1019
55°	1002	1022	1049	1034	1016	896
65°	666	680	692	678	666	659
75°	330	338	345	333	325	351
85°	63	64	67	68	66	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2205.8	2205.8	2205.8	2205.8	2205.8
2.5°	2188.6	2195.7	2203.1	2206.3	2188.4
5°	2177.1	2181.3	2197.6	2202.6	2184.0
7.5°	2158.3	2164.5	2180.3	2182.6	2164.7
10°	2132.5	2143.6	2154.1	2165.6	2143.8
12.5°	2099.7	2114.6	2132.5	2134.6	2118.1
15°	2062.7	2076.5	2096.0	2108.6	2081.3
17.5°	2021.3	2034.6	2059.9	2062.2	2045.7
20°	1975.1	1991.7	2022.0	2027.3	1997.6
22.5°	1922.7	1945.0	1970.3	1975.3	1953.5
25°	1867.8	1890.8	1922.0	1929.1	1900.0
27.5°	1810.3	1832.4	1867.5	1872.6	1848.0
30°	1748.7	1769.4	1808.0	1816.5	1791.5
32.5°	1686.2	1706.9	1749.6	1756.8	1732.4
35°	1616.8	1642.1	1680.9	1692.7	1665.3
37.5°	1546.0	1570.6	1614.7	1625.3	1595.9
40°	1472.7	1497.1	1540.5	1549.2	1521.0
42.5°	1397.8	1422.1	1468.6	1470.0	1446.5
45°	1321.3	1344.7	1387.9	1389.1	1361.7
47.5°	1243.6	1267.2	1305.9	1301.5	1275.8
50°	1165.0	1187.5	1221.3	1212.5	1189.3
52.5°	1083.6	1105.5	1137.4	1123.1	1101.3
55°	1001.8	1022.0	1048.7	1033.5	1016.5
57.5°	919.3	939.7	960.2	944.8	930.1
60°	836.1	854.0	870.8	855.2	843.9
62.5°	751.5	766.9	781.4	766.5	755.9
65°	666.0	679.6	691.5	677.7	666.5
67.5°	581.0	592.5	603.5	589.3	577.5
70°	496.0	505.8	516.0	501.2	490.4
72.5°	412.1	420.8	429.8	415.5	406.1
75°	330.5	338.1	345.4	332.8	325.4
77.5°	252.6	259.0	264.1	256.0	248.9
80°	180.2	185.0	188.0	184.8	178.1
82.5°	115.8	119.3	120.9	120.7	116.3
85°	63.0	64.1	67.1	67.8	65.5
87.5°	24.4	26.0	26.7	28.7	26.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)