

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: P488932

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-3HI-35-120-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: P488932
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-LD4-3HI-35-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

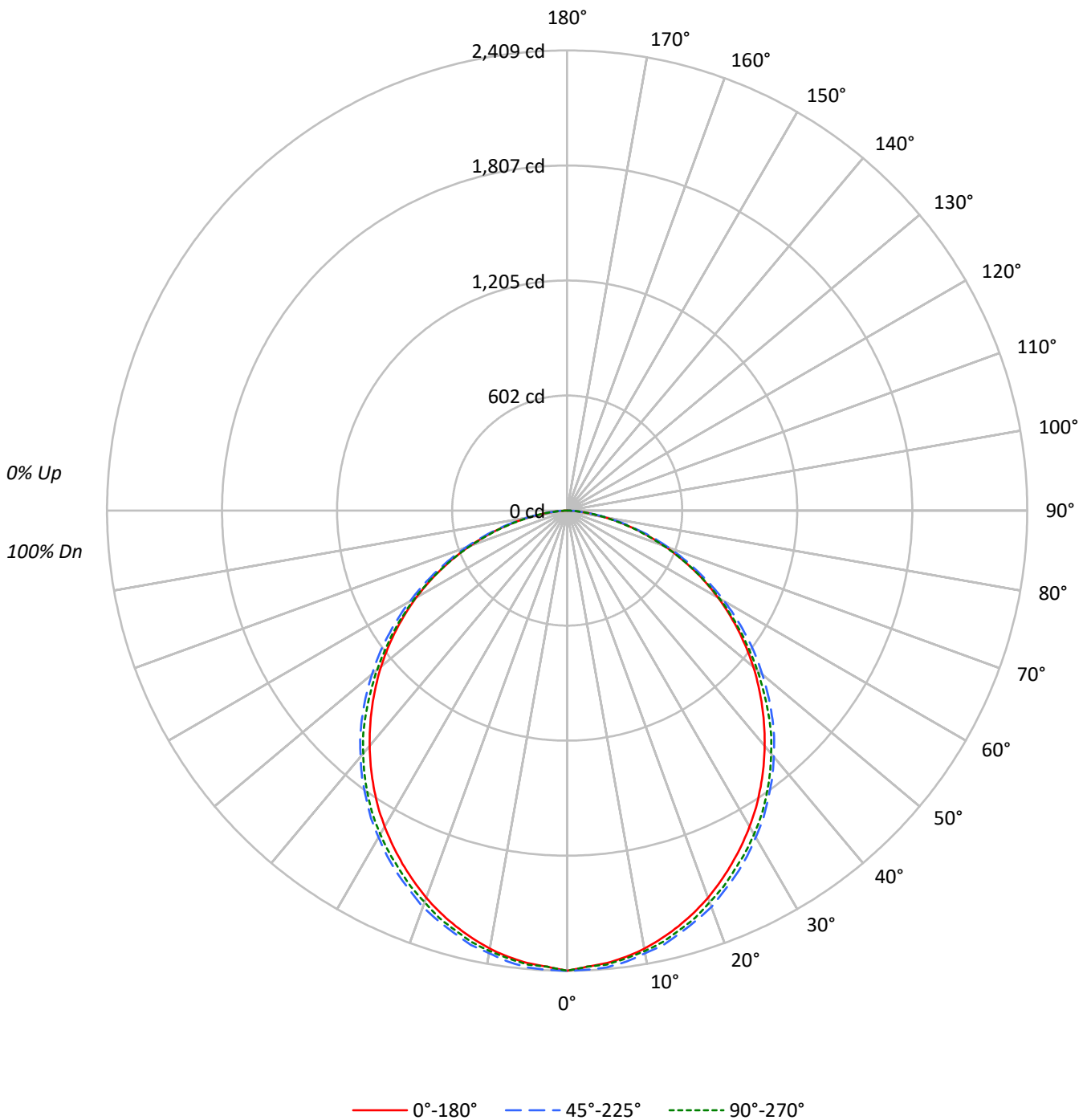
Lumens per Lamp: N/A
Luminaire Lumens: 6333.9 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
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°	6483	6483	6483
5°	6423	6484	6443
10°	6364	6429	6398
15°	6276	6377	6333
20°	6178	6324	6248
25°	6057	6233	6161
30°	5935	6136	6080
35°	5801	6031	5975
40°	5650	5910	5836
45°	5492	5769	5660
50°	5327	5584	5438
55°	5134	5374	5209
60°	4915	5119	4961
65°	4632	4809	4635
70°	4262	4434	4215
75°	3753	3923	3695
80°	3050	3181	3014
85°	2124	2263	2208



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.9	3.6
10°-20°	643.0	10.2
20°-30°	959.0	15.1
30°-40°	1136.4	17.9
40°-50°	1149.9	18.2
50°-60°	1004.2	15.9
60°-70°	733.9	11.6
70°-80°	390.5	6.2
80°-90°	90.2	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°	1828.9	28.9
0°-40°	2965.2	46.8
0°-60°	5119.3	80.8
0°-90°	6333.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6333.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2409	2409	2409	2409	2409	
5°	2378	2382	2400	2406	2385	225
15°	2253	2268	2289	2303	2273	635
25°	2040	2065	2099	2107	2075	940
35°	1766	1794	1836	1849	1819	1104
45°	1443	1469	1516	1517	1487	1113
55°	1094	1116	1145	1129	1110	978
65°	727	742	755	740	728	720
75°	361	369	377	364	355	384
85°	69	70	73	74	72	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2409.2	2409.2	2409.2	2409.2	2409.2
2.5°	2390.4	2398.1	2406.2	2409.7	2390.1
5°	2377.8	2382.3	2400.2	2405.7	2385.3
7.5°	2357.2	2364.0	2381.3	2383.8	2364.3
10°	2329.1	2341.2	2352.7	2365.3	2341.4
12.5°	2293.2	2309.5	2329.1	2331.4	2313.3
15°	2252.8	2267.9	2289.2	2303.0	2273.1
17.5°	2207.6	2222.2	2249.8	2252.3	2234.2
20°	2157.2	2175.2	2208.4	2214.2	2181.8
22.5°	2099.9	2124.3	2151.9	2157.4	2133.6
25°	2040.0	2065.1	2099.2	2107.0	2075.1
27.5°	1977.2	2001.3	2039.7	2045.2	2018.4
30°	1909.9	1932.5	1974.7	1984.0	1956.6
32.5°	1841.7	1864.2	1910.9	1918.7	1892.1
35°	1765.9	1793.5	1835.9	1848.7	1818.8
37.5°	1688.5	1715.4	1763.6	1775.1	1743.0
40°	1608.5	1635.1	1682.5	1692.1	1661.2
42.5°	1526.6	1553.2	1604.0	1605.5	1579.9
45°	1443.1	1468.7	1515.8	1517.1	1487.2
47.5°	1358.2	1384.1	1426.2	1421.5	1393.4
50°	1272.4	1297.0	1333.9	1324.3	1299.0
52.5°	1183.5	1207.4	1242.2	1226.7	1202.8
55°	1094.2	1116.2	1145.4	1128.8	1110.2
57.5°	1004.0	1026.4	1048.7	1031.9	1015.8
60°	913.2	932.8	951.1	934.0	921.7
62.5°	820.8	837.6	853.4	837.1	825.6
65°	727.4	742.2	755.3	740.2	727.9
67.5°	634.6	647.1	659.2	643.6	630.8
70°	541.7	552.5	563.5	547.5	535.7
72.5°	450.1	459.6	469.4	453.8	443.5
75°	361.0	369.2	377.3	363.5	355.4
77.5°	275.9	282.9	288.4	279.6	271.8
80°	196.8	202.1	205.3	201.8	194.5
82.5°	126.5	130.3	132.0	131.8	127.0
85°	68.8	70.0	73.3	74.0	71.5
87.5°	26.6	28.4	29.1	31.4	28.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)