

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: P489449

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-2LO-35-120-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: P489449
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-LD4-2LO-35-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

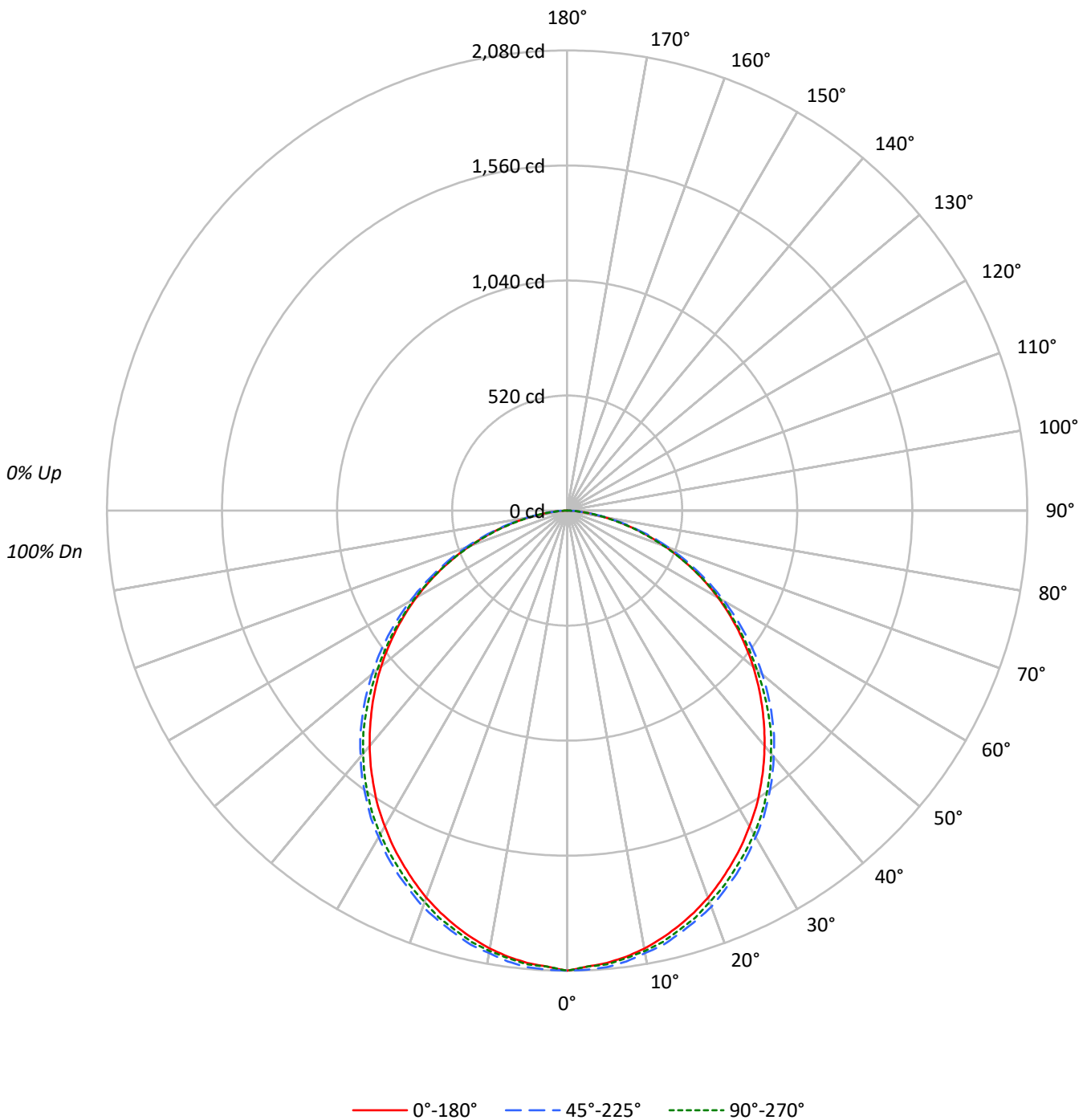
Lumens per Lamp: N/A
Luminaire Lumens: 5467.2 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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	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					100			
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85					85			
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60					60			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51					51			
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45					45			
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39					39			
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2798	2798	2798
5°	2772	2798	2781
10°	2747	2775	2761
15°	2709	2752	2733
20°	2666	2729	2696
25°	2614	2690	2659
30°	2561	2648	2624
35°	2504	2603	2579
40°	2439	2551	2519
45°	2370	2490	2443
50°	2299	2410	2347
55°	2215	2319	2248
60°	2121	2209	2141
65°	1999	2075	2000
70°	1840	1913	1819
75°	1620	1693	1595
80°	1316	1373	1301
85°	917	977	953



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.8	3.6
10°-20°	555.0	10.2
20°-30°	827.8	15.1
30°-40°	980.9	17.9
40°-50°	992.5	18.2
50°-60°	866.8	15.9
60°-70°	633.4	11.6
70°-80°	337.0	6.2
80°-90°	77.9	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°	1578.6	28.9
0°-40°	2559.5	46.8
0°-60°	4418.8	80.8
0°-90°	5467.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5467.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2080	2080	2080	2080	2080	
5°	2052	2056	2072	2076	2059	195
15°	1944	1958	1976	1988	1962	548
25°	1761	1782	1812	1819	1791	811
35°	1524	1548	1585	1596	1570	953
45°	1246	1268	1308	1310	1284	961
55°	944	964	989	974	958	844
65°	628	641	652	639	628	621
75°	312	319	326	314	307	331
85°	59	60	63	64	62	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2079.5	2079.5	2079.5	2079.5	2079.5
2.5°	2063.3	2070.0	2076.9	2080.0	2063.1
5°	2052.4	2056.3	2071.7	2076.5	2058.9
7.5°	2034.7	2040.5	2055.5	2057.6	2040.7
10°	2010.4	2020.8	2030.8	2041.6	2021.0
12.5°	1979.4	1993.5	2010.4	2012.4	1996.8
15°	1944.5	1957.5	1976.0	1987.9	1962.1
17.5°	1905.5	1918.1	1941.9	1944.1	1928.5
20°	1862.0	1877.6	1906.2	1911.2	1883.2
22.5°	1812.6	1833.6	1857.4	1862.2	1841.6
25°	1760.8	1782.5	1811.9	1818.7	1791.2
27.5°	1706.7	1727.5	1760.6	1765.4	1742.2
30°	1648.6	1668.1	1704.5	1712.5	1688.9
32.5°	1589.7	1609.2	1649.5	1656.2	1633.2
35°	1524.2	1548.1	1584.7	1595.7	1569.9
37.5°	1457.5	1480.7	1522.3	1532.2	1504.5
40°	1388.4	1411.3	1452.3	1460.5	1433.9
42.5°	1317.7	1340.7	1384.5	1385.8	1363.7
45°	1245.6	1267.7	1308.4	1309.5	1283.7
47.5°	1172.4	1194.7	1231.1	1227.0	1202.7
50°	1098.3	1119.5	1151.3	1143.1	1121.2
52.5°	1021.6	1042.1	1072.3	1058.8	1038.2
55°	944.4	963.5	988.6	974.3	958.3
57.5°	866.7	885.9	905.2	890.7	876.8
60°	788.2	805.1	820.9	806.2	795.6
62.5°	708.5	723.0	736.7	722.6	712.6
65°	627.9	640.7	651.9	638.9	628.3
67.5°	547.7	558.6	569.0	555.5	544.5
70°	467.6	476.9	486.4	472.5	462.4
72.5°	388.5	396.7	405.2	391.7	382.8
75°	311.6	318.7	325.6	313.7	306.8
77.5°	238.1	244.2	248.9	241.4	234.6
80°	169.9	174.4	177.2	174.2	167.9
82.5°	109.2	112.4	114.0	113.7	109.6
85°	59.4	60.4	63.3	63.9	61.7
87.5°	23.0	24.5	25.1	27.1	24.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)