

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: P488626

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-3STD-20-120-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: P488626
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-12-4-INS-A12125-LD4-3STD-20-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

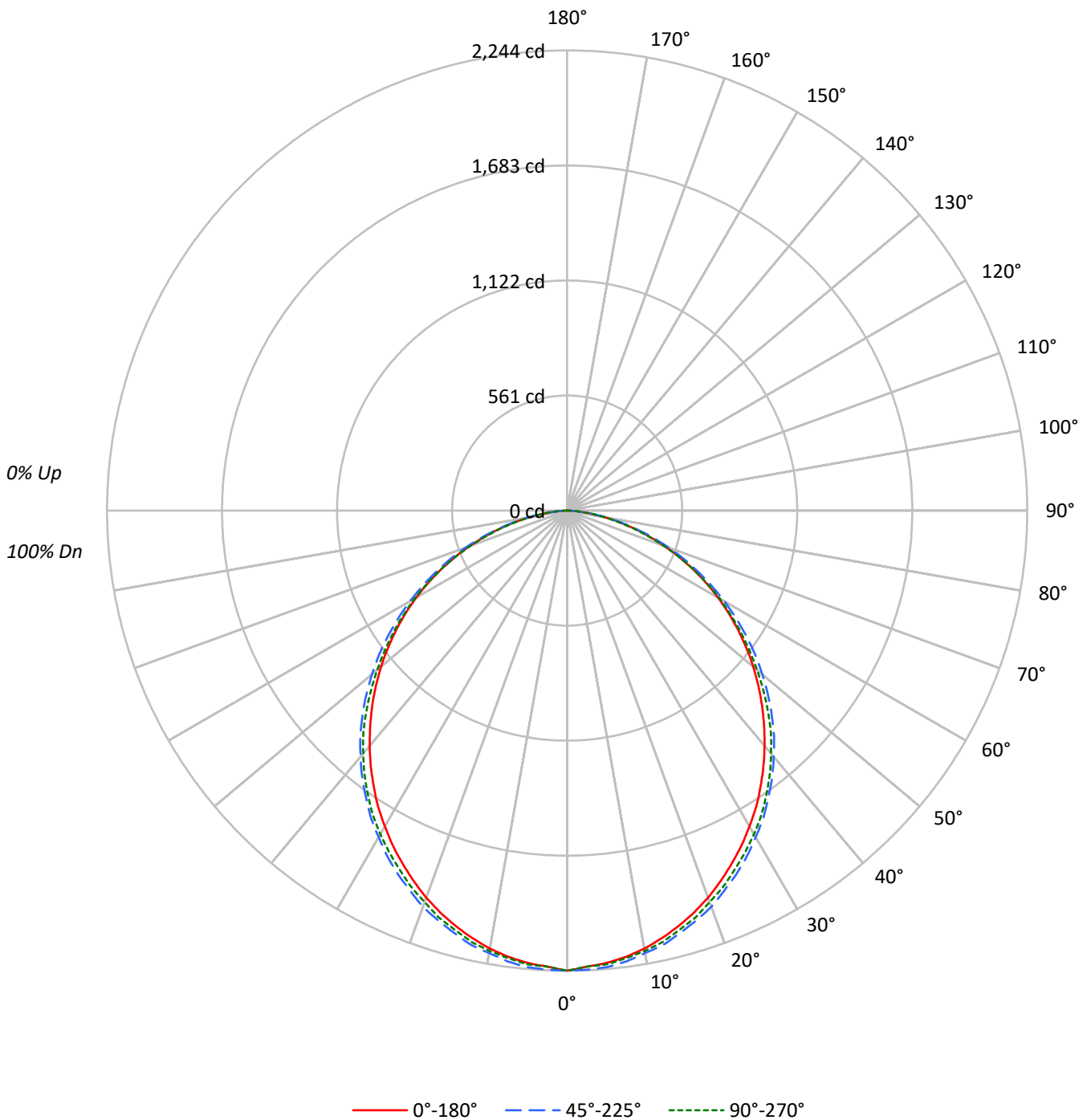
Lumens per Lamp: N/A
Luminaire Lumens: 5898.2 lumens
Efficiency: N/A
Efficacy: 59.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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°	6037	6037	6037
5°	5981	6038	6000
10°	5927	5987	5958
15°	5844	5939	5897
20°	5753	5889	5818
25°	5640	5804	5738
30°	5527	5714	5661
35°	5402	5616	5564
40°	5262	5504	5434
45°	5114	5372	5270
50°	4960	5200	5064
55°	4780	5004	4850
60°	4577	4767	4619
65°	4313	4478	4316
70°	3969	4129	3925
75°	3494	3653	3441
80°	2841	2963	2808
85°	1976	2109	2056



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.3	3.6
10°-20°	598.8	10.2
20°-30°	893.0	15.1
30°-40°	1058.2	17.9
40°-50°	1070.8	18.2
50°-60°	935.2	15.9
60°-70°	683.4	11.6
70°-80°	363.6	6.2
80°-90°	84.0	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°	1703.0	28.9
0°-40°	2761.3	46.8
0°-60°	4767.2	80.8
0°-90°	5898.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5898.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2244	2244	2244	2244	2244	
5°	2214	2218	2235	2240	2221	210
15°	2098	2112	2132	2145	2117	591
25°	1900	1923	1955	1962	1932	875
35°	1644	1670	1710	1722	1694	1028
45°	1344	1368	1412	1413	1385	1037
55°	1019	1040	1067	1051	1034	911
65°	677	691	703	689	678	670
75°	336	344	351	338	331	357
85°	64	65	68	69	67	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2243.5	2243.5	2243.5	2243.5	2243.5
2.5°	2225.9	2233.2	2240.7	2243.9	2225.7
5°	2214.2	2218.5	2235.1	2240.2	2221.3
7.5°	2195.1	2201.4	2217.5	2219.9	2201.6
10°	2168.9	2180.1	2190.9	2202.6	2180.4
12.5°	2135.5	2150.7	2168.9	2171.0	2154.2
15°	2097.8	2111.9	2131.7	2144.6	2116.8
17.5°	2055.8	2069.3	2095.0	2097.4	2080.5
20°	2008.8	2025.6	2056.5	2061.8	2031.7
22.5°	1955.5	1978.2	2003.9	2009.0	1986.8
25°	1899.6	1923.0	1954.8	1962.0	1932.4
27.5°	1841.2	1863.6	1899.4	1904.5	1879.5
30°	1778.6	1799.6	1838.9	1847.5	1822.0
32.5°	1715.0	1736.0	1779.5	1786.7	1762.0
35°	1644.4	1670.1	1709.6	1721.5	1693.7
37.5°	1572.4	1597.4	1642.3	1653.0	1623.1
40°	1497.8	1522.6	1566.8	1575.7	1546.9
42.5°	1421.6	1446.4	1493.6	1495.0	1471.2
45°	1343.8	1367.6	1411.6	1412.7	1384.9
47.5°	1264.8	1288.9	1328.1	1323.7	1297.5
50°	1184.8	1207.8	1242.1	1233.2	1209.6
52.5°	1102.1	1124.3	1156.8	1142.3	1120.1
55°	1018.9	1039.5	1066.6	1051.1	1033.8
57.5°	935.0	955.8	976.6	960.9	946.0
60°	850.4	868.6	885.7	869.8	858.3
62.5°	764.3	780.0	794.7	779.5	768.8
65°	677.4	691.2	703.3	689.3	677.9
67.5°	590.9	602.6	613.8	599.3	587.4
70°	504.4	514.5	524.8	509.8	498.8
72.5°	419.1	428.0	437.1	422.6	413.0
75°	336.1	343.8	351.3	338.5	331.0
77.5°	256.9	263.4	268.6	260.4	253.1
80°	183.3	188.2	191.2	187.9	181.2
82.5°	117.8	121.3	122.9	122.7	118.3
85°	64.0	65.2	68.3	69.0	66.6
87.5°	24.8	26.4	27.1	29.2	26.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)