

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: P489403

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-1HI-40-120-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: P489403
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-LD4-1HI-40-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

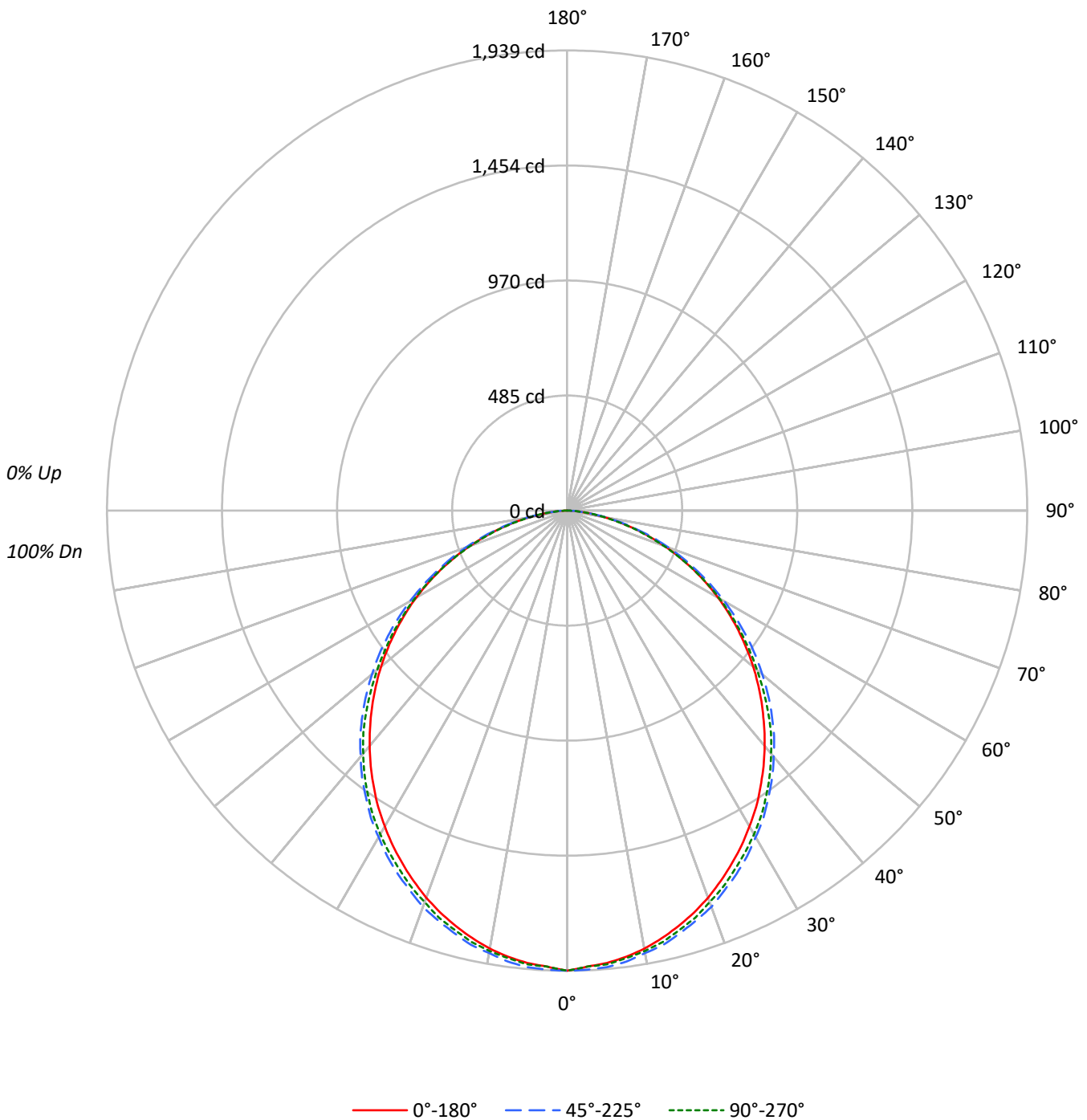
Lumens per Lamp: N/A
Luminaire Lumens: 5097.1 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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°	2609	2609	2609
5°	2584	2609	2593
10°	2561	2587	2574
15°	2525	2566	2548
20°	2486	2545	2514
25°	2437	2508	2479
30°	2388	2469	2446
35°	2334	2427	2404
40°	2273	2378	2348
45°	2210	2321	2277
50°	2143	2247	2188
55°	2065	2162	2096
60°	1978	2060	1996
65°	1864	1935	1865
70°	1715	1784	1696
75°	1510	1578	1487
80°	1227	1280	1213
85°	854	911	889



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.6	3.6
10°-20°	517.4	10.2
20°-30°	771.7	15.1
30°-40°	914.5	17.9
40°-50°	925.3	18.2
50°-60°	808.1	15.9
60°-70°	590.6	11.6
70°-80°	314.2	6.2
80°-90°	72.6	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°	1471.7	28.9
0°-40°	2386.2	46.8
0°-60°	4119.7	80.8
0°-90°	5097.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5097.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1939	1939	1939	1939	1939	
5°	1914	1917	1932	1936	1920	181
15°	1813	1825	1842	1853	1829	511
25°	1642	1662	1689	1696	1670	756
35°	1421	1443	1477	1488	1464	889
45°	1161	1182	1220	1221	1197	896
55°	880	898	922	908	893	787
65°	585	597	608	596	586	579
75°	290	297	304	292	286	309
85°	55	56	59	60	58	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1938.8	1938.8	1938.8	1938.8	1938.8
2.5°	1923.6	1929.9	1936.3	1939.2	1923.4
5°	1913.5	1917.1	1931.5	1935.9	1919.6
7.5°	1896.9	1902.4	1916.3	1918.4	1902.6
10°	1874.3	1884.0	1893.3	1903.4	1884.2
12.5°	1845.4	1858.6	1874.3	1876.1	1861.6
15°	1812.9	1825.0	1842.2	1853.3	1829.3
17.5°	1776.6	1788.3	1810.5	1812.5	1798.0
20°	1736.0	1750.5	1777.2	1781.8	1755.7
22.5°	1689.9	1709.5	1731.7	1736.2	1717.0
25°	1641.6	1661.8	1689.3	1695.6	1669.9
27.5°	1591.1	1610.5	1641.4	1645.9	1624.2
30°	1537.0	1555.2	1589.1	1596.6	1574.6
32.5°	1482.0	1500.2	1537.8	1544.1	1522.6
35°	1421.0	1443.3	1477.4	1487.7	1463.7
37.5°	1358.8	1380.4	1419.2	1428.5	1402.7
40°	1294.4	1315.8	1354.0	1361.7	1336.8
42.5°	1228.5	1249.9	1290.8	1292.0	1271.4
45°	1161.3	1181.9	1219.9	1220.9	1196.8
47.5°	1093.0	1113.8	1147.7	1143.9	1121.3
50°	1023.9	1043.7	1073.4	1065.7	1045.3
52.5°	952.4	971.6	999.7	987.2	968.0
55°	880.5	898.3	921.7	908.4	893.4
57.5°	808.0	826.0	843.9	830.4	817.5
60°	734.9	750.6	765.4	751.6	741.7
62.5°	660.5	674.1	686.8	673.7	664.4
65°	585.4	597.3	607.8	595.7	585.8
67.5°	510.6	520.7	530.4	517.9	507.6
70°	435.9	444.6	453.5	440.6	431.1
72.5°	362.2	369.9	377.7	365.2	356.9
75°	290.5	297.1	303.6	292.5	286.0
77.5°	222.0	227.6	232.1	225.0	218.8
80°	158.4	162.6	165.2	162.4	156.5
82.5°	101.8	104.8	106.2	106.0	102.2
85°	55.3	56.4	59.0	59.6	57.6
87.5°	21.4	22.8	23.4	25.2	23.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)