

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: P489456

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-2STD-27-120-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: P489456
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-LD4-2STD-27-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

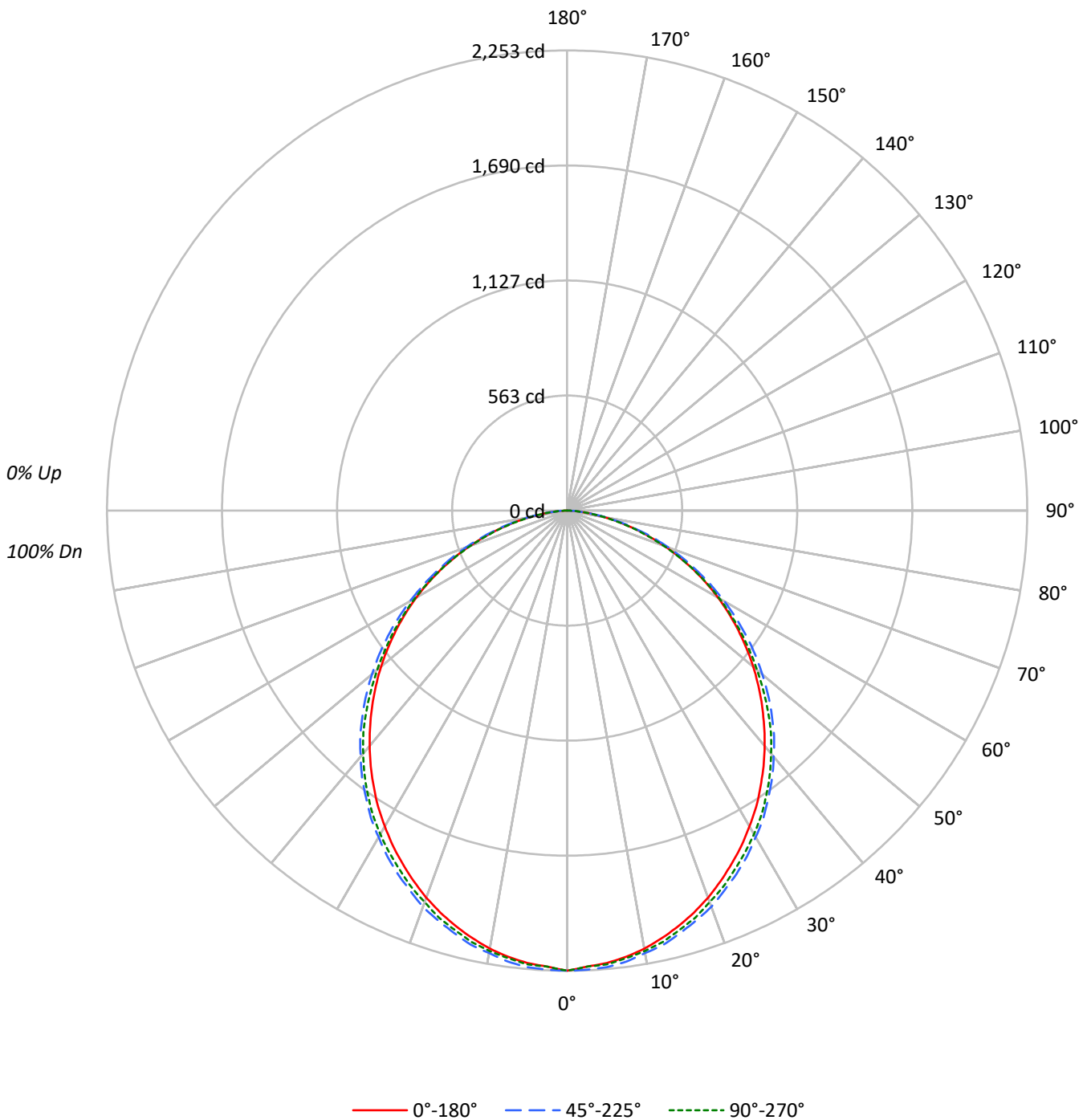
Lumens per Lamp: N/A
Luminaire Lumens: 5922.4 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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°	3031	3031	3031
5°	3003	3031	3012
10°	2975	3006	2991
15°	2934	2982	2961
20°	2888	2957	2921
25°	2832	2914	2881
30°	2774	2869	2842
35°	2712	2820	2793
40°	2642	2763	2728
45°	2567	2697	2646
50°	2490	2611	2542
55°	2400	2512	2435
60°	2298	2393	2319
65°	2166	2248	2167
70°	1993	2073	1971
75°	1755	1834	1727
80°	1426	1488	1409
85°	993	1057	1033



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.2	3.6
10°-20°	601.2	10.2
20°-30°	896.7	15.1
30°-40°	1062.6	17.9
40°-50°	1075.1	18.2
50°-60°	939.0	15.9
60°-70°	686.2	11.6
70°-80°	365.1	6.2
80°-90°	84.4	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°	1710.0	28.9
0°-40°	2772.6	46.8
0°-60°	4786.7	80.8
0°-90°	5922.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5922.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2253	2253	2253	2253	2253	
5°	2223	2228	2244	2249	2230	211
15°	2106	2120	2140	2153	2126	594
25°	1907	1931	1963	1970	1940	879
35°	1651	1677	1717	1729	1701	1033
45°	1349	1373	1417	1418	1391	1041
55°	1023	1044	1071	1056	1038	915
65°	680	694	706	692	681	673
75°	338	345	353	340	332	359
85°	64	66	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°	2252.7	2252.7	2252.7	2252.7	2252.7
2.5°	2235.1	2242.3	2249.9	2253.1	2234.8
5°	2223.3	2227.6	2244.2	2249.4	2230.4
7.5°	2204.1	2210.4	2226.6	2229.0	2210.7
10°	2177.8	2189.1	2199.9	2211.6	2189.3
12.5°	2144.2	2159.5	2177.8	2179.9	2163.0
15°	2106.5	2120.5	2140.5	2153.4	2125.5
17.5°	2064.2	2077.8	2103.6	2106.0	2089.1
20°	2017.0	2033.9	2064.9	2070.3	2040.0
22.5°	1963.5	1986.3	2012.1	2017.3	1995.0
25°	1907.4	1930.9	1962.8	1970.1	1940.3
27.5°	1848.7	1871.3	1907.2	1912.4	1887.2
30°	1785.8	1807.0	1846.4	1855.1	1829.5
32.5°	1722.0	1743.1	1786.8	1794.1	1769.2
35°	1651.1	1676.9	1716.6	1728.6	1700.7
37.5°	1578.8	1604.0	1649.0	1659.8	1629.8
40°	1504.0	1528.8	1573.2	1582.1	1553.3
42.5°	1427.5	1452.3	1499.7	1501.2	1477.2
45°	1349.3	1373.2	1417.4	1418.5	1390.6
47.5°	1270.0	1294.1	1333.6	1329.1	1302.8
50°	1189.7	1212.7	1247.2	1238.3	1214.6
52.5°	1106.6	1128.9	1161.5	1147.0	1124.7
55°	1023.1	1043.7	1070.9	1055.5	1038.1
57.5°	938.8	959.7	980.6	964.9	949.8
60°	853.8	872.2	889.3	873.3	861.8
62.5°	767.5	783.2	798.0	782.7	771.9
65°	680.2	694.0	706.2	692.1	680.6
67.5°	593.3	605.1	616.3	601.8	589.8
70°	506.5	516.6	526.9	511.9	500.9
72.5°	420.8	429.7	438.9	424.3	414.7
75°	337.5	345.2	352.8	339.8	332.3
77.5°	257.9	264.5	269.7	261.5	254.2
80°	184.0	188.9	192.0	188.7	181.9
82.5°	118.3	121.8	123.5	123.2	118.8
85°	64.3	65.5	68.5	69.2	66.9
87.5°	24.9	26.5	27.2	29.3	27.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)