

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: P488931

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-3HI-30-120-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: P488931
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-30-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

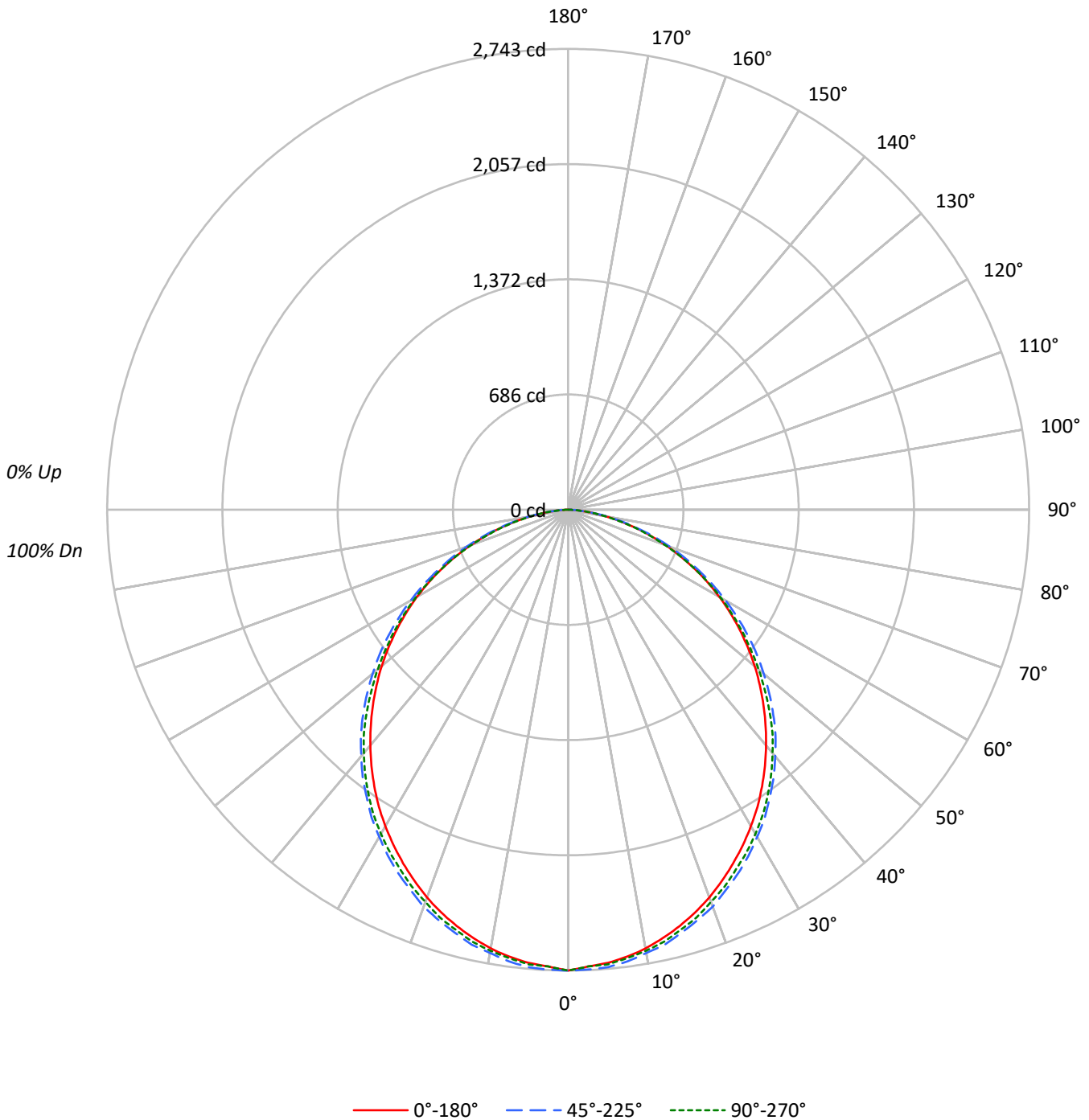
Lumens per Lamp: N/A
Luminaire Lumens: 7212.0 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	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°	7382	7382	7382
5°	7314	7382	7337
10°	7247	7320	7285
15°	7146	7262	7211
20°	7034	7201	7114
25°	6897	7097	7016
30°	6757	6987	6923
35°	6605	6867	6803
40°	6434	6730	6645
45°	6253	6568	6444
50°	6065	6358	6192
55°	5845	6118	5931
60°	5596	5828	5648
65°	5274	5476	5277
70°	4853	5048	4799
75°	4273	4467	4208
80°	3473	3623	3433
85°	2418	2578	2516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.4	3.6
10°-20°	732.1	10.2
20°-30°	1091.9	15.1
30°-40°	1293.9	17.9
40°-50°	1309.3	18.2
50°-60°	1143.5	15.9
60°-70°	835.6	11.6
70°-80°	444.6	6.2
80°-90°	102.8	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°	2082.4	28.9
0°-40°	3376.3	46.8
0°-60°	5829.1	80.8
0°-90°	7212.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7212.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2743	2743	2743	2743	2743	
5°	2708	2713	2733	2739	2716	257
15°	2565	2582	2607	2622	2588	723
25°	2323	2351	2390	2399	2363	1070
35°	2011	2042	2090	2105	2071	1257
45°	1643	1672	1726	1727	1693	1268
55°	1246	1271	1304	1285	1264	1114
65°	828	845	860	843	829	820
75°	411	420	430	414	405	437
85°	78	80	84	84	82	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2743.2	2743.2	2743.2	2743.2	2743.2
2.5°	2721.8	2730.6	2739.8	2743.8	2721.5
5°	2707.5	2712.6	2732.9	2739.2	2716.0
7.5°	2684.0	2691.7	2711.5	2714.3	2692.0
10°	2652.0	2665.7	2678.9	2693.2	2666.0
12.5°	2611.1	2629.7	2652.0	2654.6	2634.0
15°	2565.1	2582.3	2606.6	2622.3	2588.3
17.5°	2513.7	2530.3	2561.7	2564.6	2544.0
20°	2456.2	2476.8	2514.5	2521.1	2484.2
22.5°	2391.1	2418.8	2450.2	2456.5	2429.4
25°	2322.8	2351.3	2390.2	2399.1	2362.8
27.5°	2251.3	2278.7	2322.5	2328.8	2298.2
30°	2174.7	2200.4	2248.5	2259.0	2227.9
32.5°	2097.0	2122.7	2175.9	2184.7	2154.4
35°	2010.7	2042.1	2090.4	2105.0	2071.0
37.5°	1922.6	1953.2	2008.1	2021.2	1984.7
40°	1831.5	1861.8	1915.8	1926.6	1891.5
42.5°	1738.3	1768.6	1826.3	1828.0	1798.9
45°	1643.1	1672.3	1726.0	1727.4	1693.4
47.5°	1546.5	1575.9	1624.0	1618.5	1586.5
50°	1448.8	1476.8	1518.8	1507.9	1479.1
52.5°	1347.6	1374.7	1414.5	1396.7	1369.6
55°	1245.8	1271.0	1304.1	1285.3	1264.1
57.5°	1143.2	1168.7	1194.1	1175.0	1156.7
60°	1039.8	1062.1	1082.9	1063.5	1049.5
62.5°	934.6	953.7	971.7	953.2	940.0
65°	828.3	845.1	860.0	842.8	828.8
67.5°	722.5	736.8	750.5	732.8	718.2
70°	616.8	629.1	641.6	623.3	609.9
72.5°	512.5	523.3	534.5	516.7	505.0
75°	411.0	420.4	429.6	413.9	404.7
77.5°	314.1	322.1	328.4	318.4	309.5
80°	224.1	230.1	233.8	229.8	221.5
82.5°	144.0	148.3	150.3	150.0	144.6
85°	78.3	79.7	83.5	84.3	81.5
87.5°	30.3	32.3	33.2	35.7	32.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)