

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: P488914

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-2STD-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: P488914
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-LD4-2STD-20-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

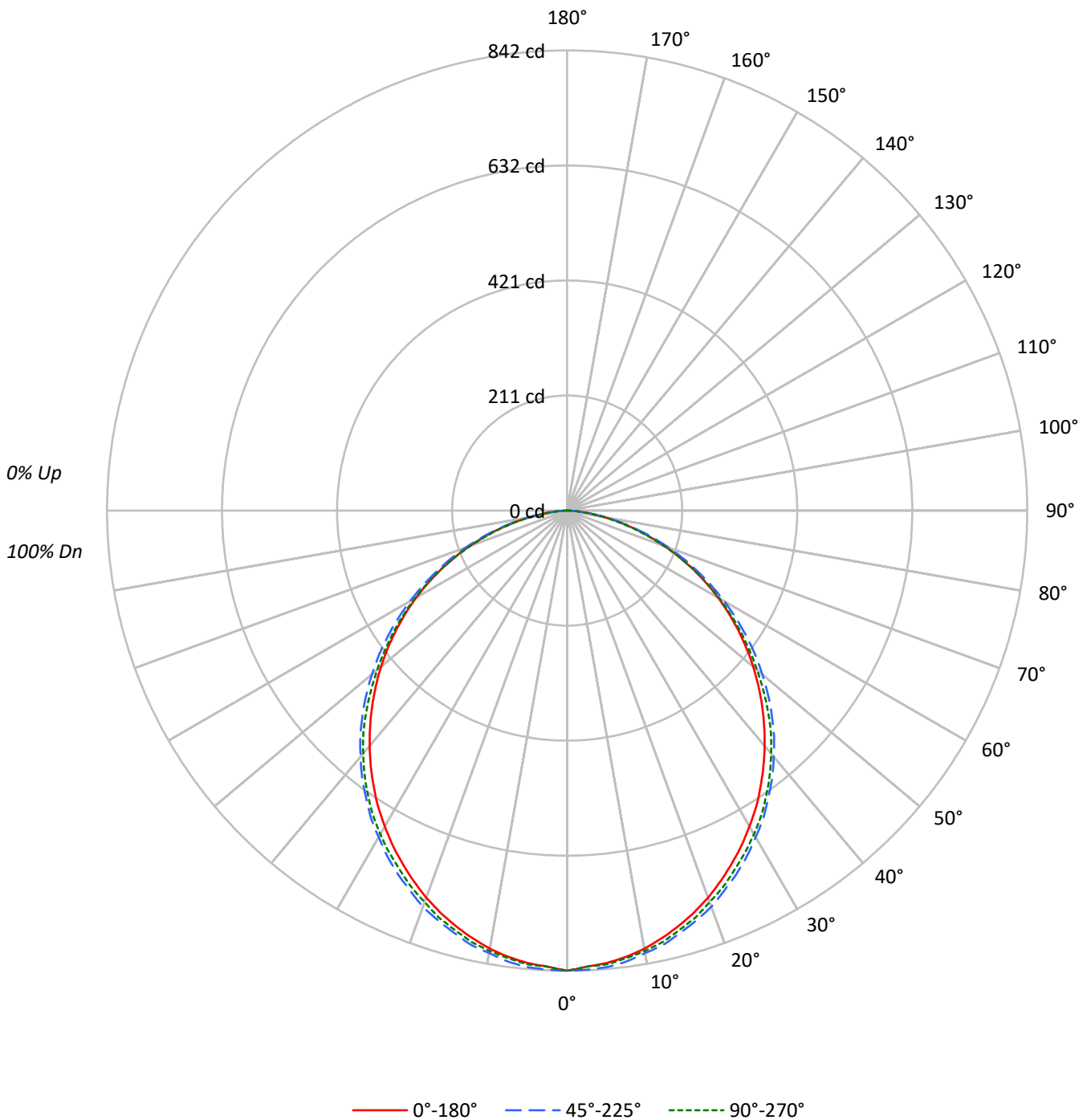
Lumens per Lamp: N/A
Luminaire Lumens: 2213.3 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	2266	2266	2266
5°	2244	2266	2251
10°	2224	2246	2236
15°	2193	2228	2213
20°	2159	2210	2183
25°	2116	2178	2153
30°	2074	2144	2124
35°	2027	2107	2088
40°	1975	2065	2039
45°	1919	2016	1978
50°	1861	1951	1900
55°	1794	1878	1820
60°	1717	1788	1734
65°	1619	1680	1620
70°	1489	1549	1473
75°	1311	1370	1291
80°	1066	1111	1054
85°	741	790	772



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.3	3.6
10°-20°	224.7	10.2
20°-30°	335.1	15.1
30°-40°	397.1	17.9
40°-50°	401.8	18.2
50°-60°	350.9	15.9
60°-70°	256.4	11.6
70°-80°	136.4	6.2
80°-90°	31.5	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°	639.1	28.9
0°-40°	1036.2	46.8
0°-60°	1788.9	80.8
0°-90°	2213.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2213.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	842	842	842	842	842	
5°	831	832	839	841	834	79
15°	787	792	800	805	794	222
25°	713	722	734	736	725	328
35°	617	627	642	646	636	386
45°	504	513	530	530	520	389
55°	382	390	400	394	388	342
65°	254	259	264	259	254	252
75°	126	129	132	127	124	134
85°	24	24	26	26	25	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	841.9	841.9	841.9	841.9	841.9
2.5°	835.3	838.0	840.8	842.0	835.2
5°	830.9	832.5	838.7	840.6	833.5
7.5°	823.7	826.1	832.1	833.0	826.2
10°	813.9	818.1	822.1	826.5	818.2
12.5°	801.3	807.0	813.9	814.7	808.4
15°	787.2	792.5	799.9	804.8	794.3
17.5°	771.4	776.5	786.2	787.0	780.7
20°	753.8	760.1	771.7	773.7	762.4
22.5°	733.8	742.3	752.0	753.9	745.6
25°	712.8	721.6	733.5	736.3	725.1
27.5°	690.9	699.3	712.7	714.7	705.3
30°	667.4	675.3	690.0	693.3	683.7
32.5°	643.5	651.4	667.8	670.5	661.2
35°	617.1	626.7	641.5	646.0	635.6
37.5°	590.0	599.4	616.3	620.3	609.1
40°	562.1	571.4	587.9	591.3	580.5
42.5°	533.5	542.8	560.5	561.0	552.1
45°	504.3	513.2	529.7	530.1	519.7
47.5°	474.6	483.6	498.4	496.7	486.9
50°	444.6	453.2	466.1	462.8	453.9
52.5°	413.6	421.9	434.1	428.6	420.3
55°	382.3	390.1	400.2	394.4	388.0
57.5°	350.8	358.7	366.5	360.6	355.0
60°	319.1	325.9	332.3	326.4	322.1
62.5°	286.8	292.7	298.2	292.5	288.5
65°	254.2	259.4	263.9	258.7	254.4
67.5°	221.7	226.1	230.3	224.9	220.4
70°	189.3	193.1	196.9	191.3	187.2
72.5°	157.3	160.6	164.0	158.6	155.0
75°	126.1	129.0	131.8	127.0	124.2
77.5°	96.4	98.9	100.8	97.7	95.0
80°	68.8	70.6	71.7	70.5	68.0
82.5°	44.2	45.5	46.1	46.0	44.4
85°	24.0	24.5	25.6	25.9	25.0
87.5°	9.3	9.9	10.2	11.0	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)