

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: P489418

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-1STD-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: P489418
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-LD4-1STD-20-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

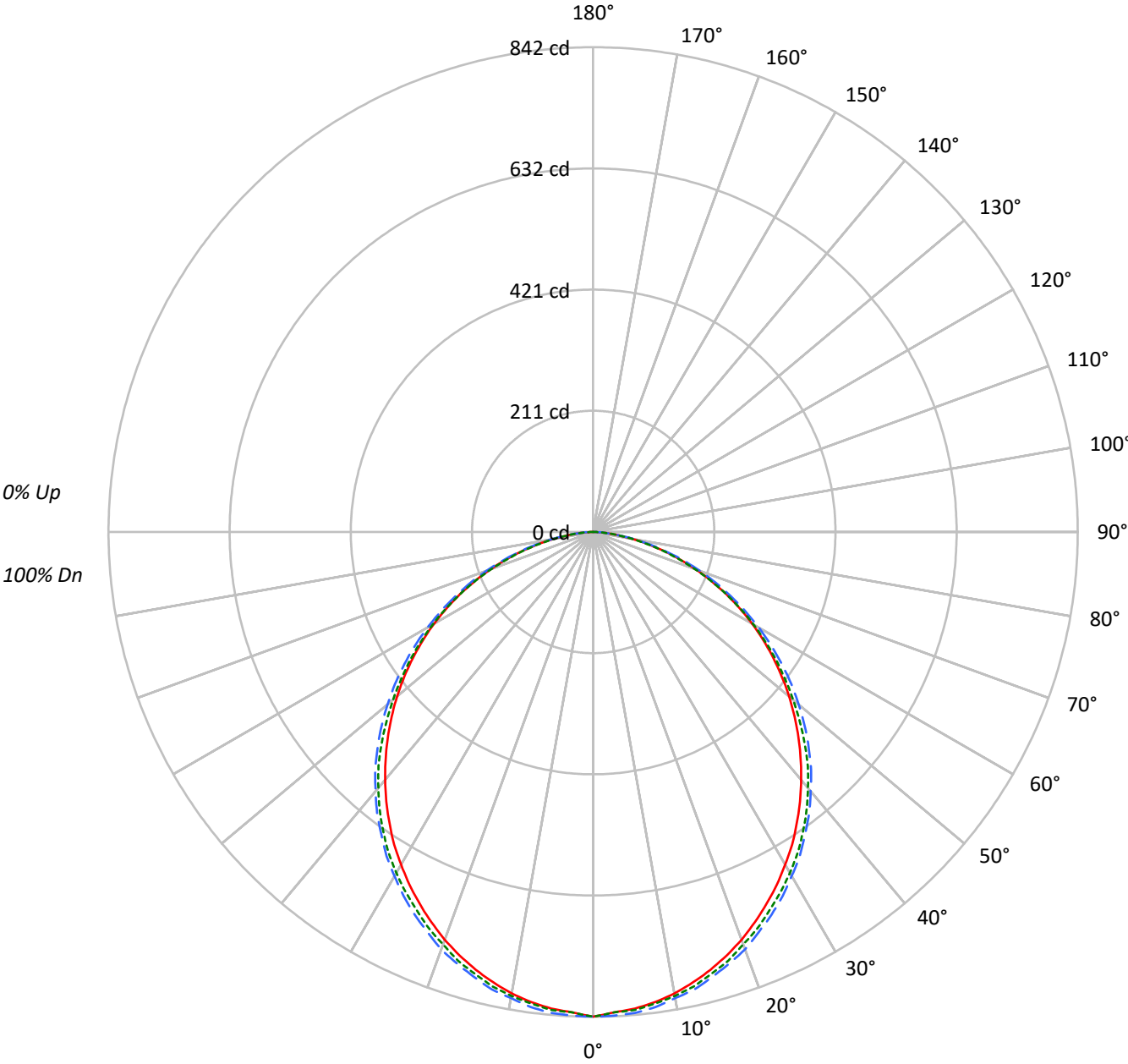
Lumens per Lamp: N/A
Luminaire Lumens: 2213.4 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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



— 0°-180° - - 45°-225° - · - · 90°-270°



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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	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°	1133	1133	1133
5°	1122	1133	1126
10°	1112	1123	1118
15°	1097	1114	1107
20°	1079	1105	1092
25°	1058	1089	1076
30°	1037	1072	1062
35°	1014	1054	1044
40°	987	1033	1020
45°	960	1008	989
50°	931	976	950
55°	897	939	910
60°	859	894	867
65°	809	840	810
70°	745	775	736
75°	656	685	646
80°	533	556	527
85°	371	395	386



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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°	1789.0	80.8
0°-90°	2213.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2213.4	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	<i>841.9</i>	841.9
2.5°	<i>835.3</i>	<i>838.0</i>	<i>840.8</i>	<i>842.1</i>	<i>835.2</i>
5°	830.9	832.5	838.7	<i>840.7</i>	833.6
7.5°	823.7	826.1	832.2	<i>833.0</i>	826.2
10°	813.9	818.1	822.2	<i>826.5</i>	818.2
12.5°	801.4	807.1	813.9	<i>814.7</i>	808.4
15°	787.3	792.5	800.0	<i>804.8</i>	794.4
17.5°	771.5	776.6	786.2	<i>787.1</i>	780.8
20°	753.8	760.1	771.7	<i>773.7</i>	762.4
22.5°	733.8	742.3	752.0	<i>753.9</i>	745.6
25°	712.9	721.6	733.6	<i>736.3</i>	725.1
27.5°	690.9	699.4	712.8	<i>714.7</i>	705.3
30°	667.4	675.3	690.1	<i>693.3</i>	683.7
32.5°	643.6	651.5	667.8	<i>670.5</i>	661.2
35°	617.1	626.7	641.6	<i>646.0</i>	635.6
37.5°	590.1	599.5	616.3	<i>620.3</i>	609.1
40°	562.1	571.4	588.0	<i>591.3</i>	580.5
42.5°	533.5	542.8	560.5	<i>561.0</i>	552.1
45°	504.3	513.2	529.7	<i>530.2</i>	519.7
47.5°	474.6	483.7	498.4	<i>496.7</i>	486.9
50°	444.6	453.2	466.1	<i>462.8</i>	453.9
52.5°	413.6	421.9	434.1	<i>428.7</i>	420.3
55°	382.4	390.1	400.2	<i>394.5</i>	388.0
57.5°	350.9	358.7	366.5	<i>360.6</i>	355.0
60°	319.1	326.0	332.4	<i>326.4</i>	322.1
62.5°	286.8	292.7	298.2	<i>292.5</i>	288.5
65°	254.2	259.4	263.9	<i>258.7</i>	254.4
67.5°	221.7	226.1	230.3	<i>224.9</i>	220.4
70°	189.3	193.1	196.9	<i>191.3</i>	187.2
72.5°	157.3	160.6	164.0	<i>158.6</i>	155.0
75°	126.1	129.0	131.8	<i>127.0</i>	124.2
77.5°	96.4	98.9	100.8	<i>97.7</i>	95.0
80°	68.8	70.6	71.8	<i>70.5</i>	68.0
82.5°	44.2	45.5	46.1	<i>46.1</i>	44.4
85°	24.0	24.5	25.6	<i>25.9</i>	25.0
87.5°	9.3	9.9	10.2	<i>11.0</i>	10.1
90°	0.0	0.0	0.0	<i>0.0</i>	0.0

(END OF REPORT)