

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: P489416

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-1LO-50-120-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: P489416
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-LD4-1LO-50-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

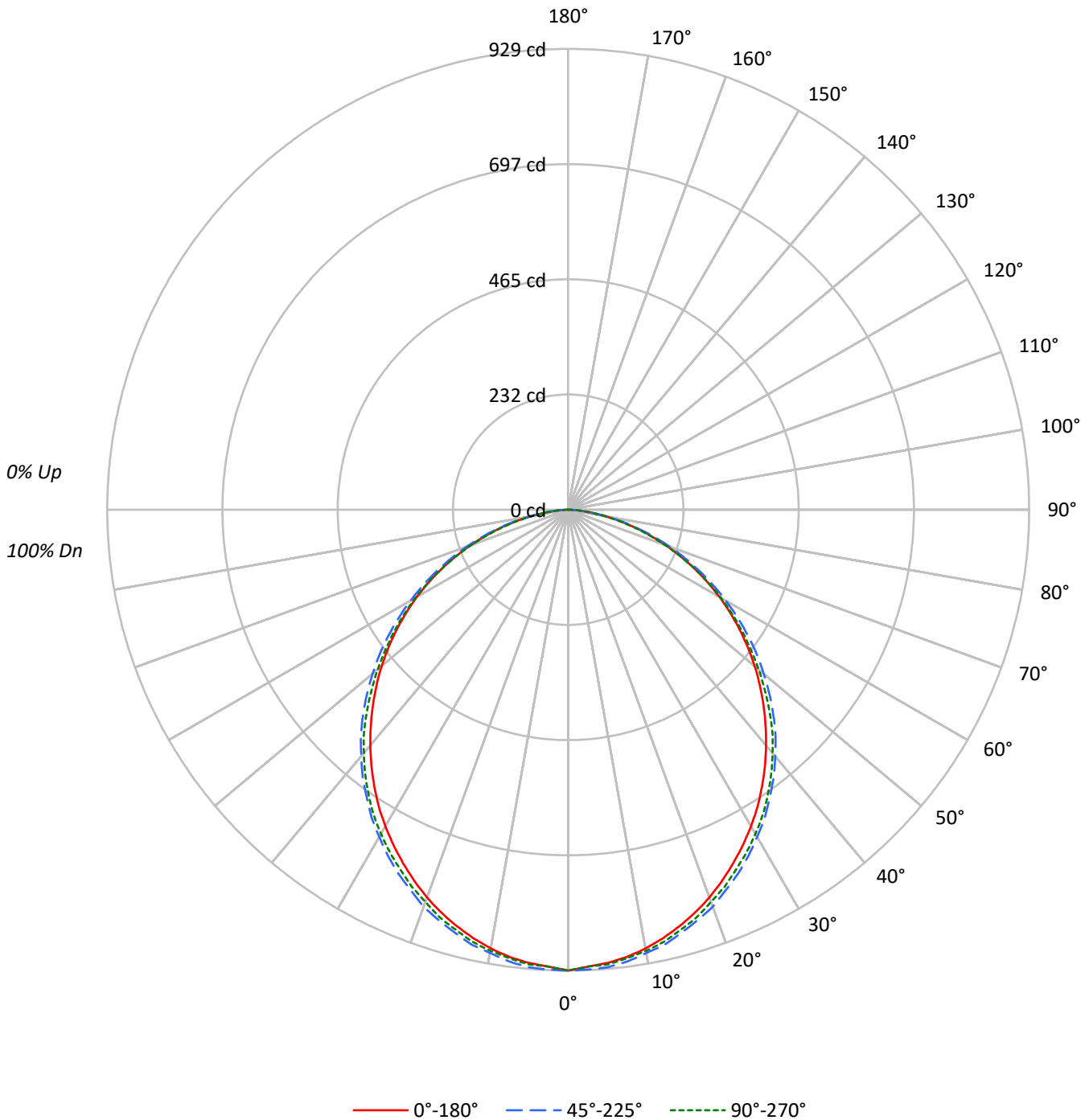
Lumens per Lamp: N/A
Luminaire Lumens: 2442.7 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	1250	1250	1250
5°	1239	1250	1242
10°	1227	1240	1234
15°	1210	1230	1221
20°	1191	1219	1205
25°	1168	1202	1188
30°	1144	1183	1172
35°	1119	1163	1152
40°	1090	1140	1125
45°	1059	1112	1091
50°	1027	1077	1049
55°	990	1036	1004
60°	948	987	957
65°	893	927	894
70°	822	855	813
75°	724	756	713
80°	588	614	581
85°	409	437	426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.5	3.6
10°-20°	248.0	10.2
20°-30°	369.8	15.1
30°-40°	438.3	17.9
40°-50°	443.5	18.2
50°-60°	387.3	15.9
60°-70°	283.0	11.6
70°-80°	150.6	6.2
80°-90°	34.8	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°	705.3	28.9
0°-40°	1143.6	46.8
0°-60°	1974.3	80.8
0°-90°	2442.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2442.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	929	929	929	929	929	
5°	917	919	926	928	920	87
15°	869	875	883	888	877	245
25°	787	796	810	813	800	362
35°	681	692	708	713	701	426
45°	556	566	585	585	574	429
55°	422	430	442	435	428	377
65°	280	286	291	286	281	278
75°	139	142	146	140	137	148
85°	26	27	28	29	28	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	929.1	929.1	929.1	929.1	929.1
2.5°	921.9	924.9	928.0	929.3	921.8
5°	917.0	918.8	925.6	927.8	919.9
7.5°	909.1	911.7	918.4	919.3	911.8
10°	898.2	902.9	907.3	912.2	903.0
12.5°	884.4	890.7	898.2	899.1	892.1
15°	868.8	874.6	882.8	888.2	876.6
17.5°	851.4	857.0	867.6	868.6	861.6
20°	831.9	838.9	851.7	853.9	841.4
22.5°	809.9	819.2	829.9	832.0	822.8
25°	786.7	796.4	809.6	812.6	800.3
27.5°	762.5	771.8	786.6	788.8	778.4
30°	736.6	745.3	761.5	765.1	754.6
32.5°	710.2	719.0	737.0	740.0	729.7
35°	681.0	691.7	708.0	713.0	701.4
37.5°	651.2	661.6	680.1	684.6	672.2
40°	620.3	630.6	648.9	652.5	640.6
42.5°	588.8	599.0	618.6	619.2	609.3
45°	556.5	566.4	584.6	585.1	573.6
47.5°	523.8	533.8	550.0	548.2	537.4
50°	490.7	500.2	514.4	510.7	501.0
52.5°	456.4	465.6	479.1	473.1	463.9
55°	422.0	430.5	441.7	435.3	428.2
57.5°	387.2	395.8	404.4	398.0	391.8
60°	352.2	359.7	366.8	360.2	355.5
62.5°	316.5	323.0	329.1	322.8	318.4
65°	280.5	286.2	291.3	285.5	280.7
67.5°	244.7	249.6	254.2	248.2	243.3
70°	208.9	213.1	217.3	211.1	206.6
72.5°	173.6	177.2	181.0	175.0	171.1
75°	139.2	142.4	145.5	140.2	137.1
77.5°	106.4	109.1	111.2	107.8	104.8
80°	75.9	77.9	79.2	77.8	75.0
82.5°	48.8	50.2	50.9	50.8	49.0
85°	26.5	27.0	28.3	28.6	27.6
87.5°	10.3	10.9	11.2	12.1	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)