

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: P488912

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-2LO-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: P488912
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-LD4-2LO-50-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

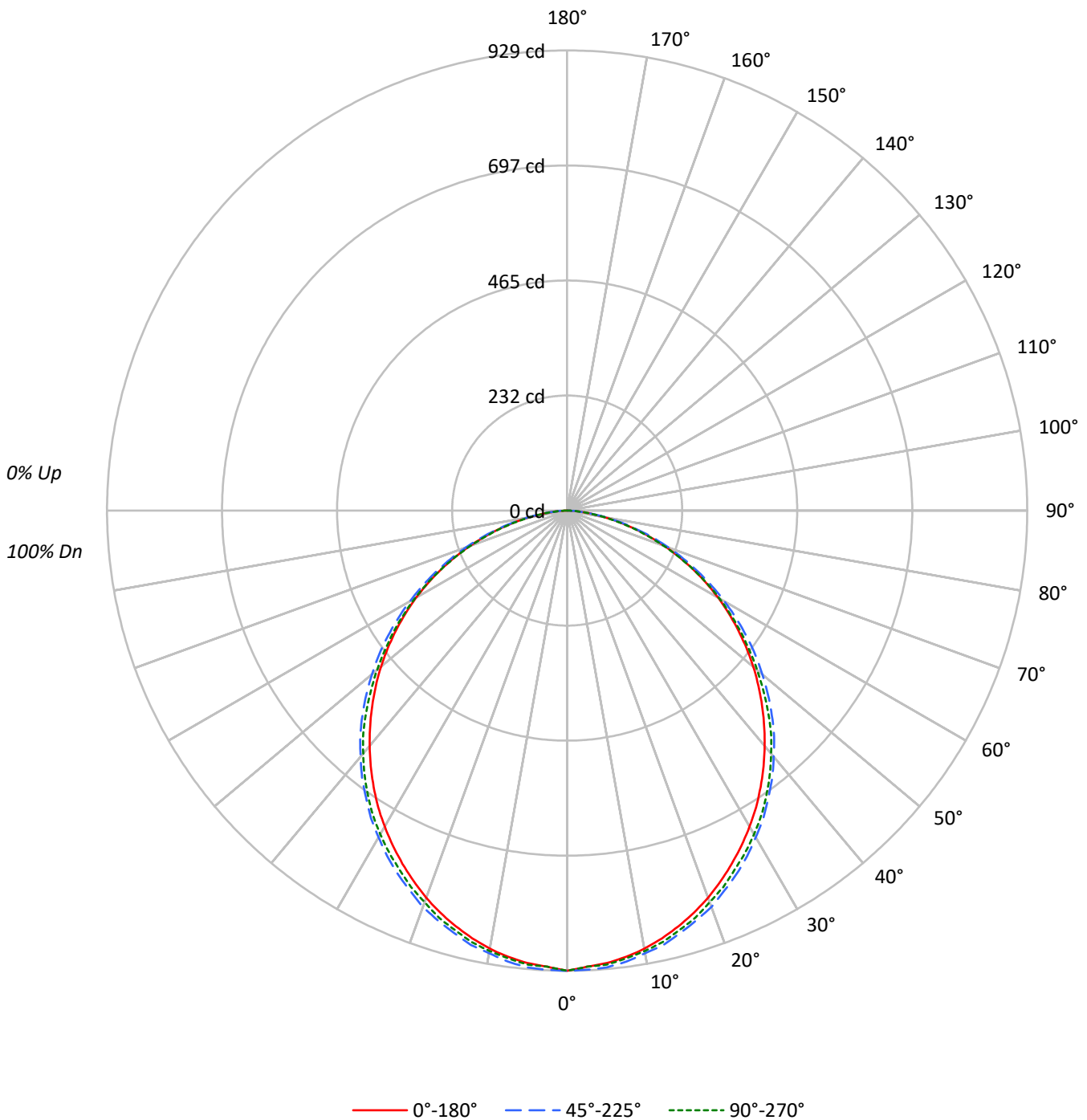
Lumens per Lamp: N/A
Luminaire Lumens: 2442.6 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	2500	2500	2500
5°	2477	2500	2485
10°	2454	2479	2467
15°	2420	2459	2442
20°	2382	2439	2410
25°	2336	2404	2376
30°	2289	2366	2344
35°	2237	2326	2304
40°	2179	2279	2250
45°	2118	2225	2183
50°	2054	2153	2097
55°	1979	2072	2008
60°	1896	1974	1913
65°	1786	1855	1787
70°	1644	1710	1626
75°	1447	1513	1425
80°	1176	1227	1162
85°	818	874	852



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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°	438.2	17.9
40°-50°	443.4	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°	1143.5	46.8
0°-60°	1974.2	80.8
0°-90°	2442.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2442.6	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	812	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°	921.8	924.8	927.9	929.3	921.7
5°	917.0	918.7	925.6	927.7	919.9
7.5°	909.0	911.7	918.3	919.3	911.8
10°	898.2	902.8	907.3	912.1	902.9
12.5°	884.4	890.6	898.2	899.1	892.1
15°	868.8	874.6	882.8	888.1	876.6
17.5°	851.3	857.0	867.6	868.6	861.6
20°	831.9	838.9	851.6	853.9	841.4
22.5°	809.8	819.2	829.9	832.0	822.8
25°	786.7	796.4	809.5	812.5	800.2
27.5°	762.5	771.8	786.6	788.7	778.4
30°	736.5	745.3	761.5	765.1	754.5
32.5°	710.2	718.9	736.9	739.9	729.7
35°	681.0	691.6	708.0	712.9	701.4
37.5°	651.2	661.5	680.1	684.6	672.2
40°	620.3	630.5	648.8	652.5	640.6
42.5°	588.7	599.0	618.5	619.1	609.3
45°	556.5	566.4	584.6	585.1	573.5
47.5°	523.8	533.8	550.0	548.2	537.3
50°	490.7	500.2	514.4	510.7	500.9
52.5°	456.4	465.6	479.1	473.1	463.9
55°	421.9	430.5	441.7	435.3	428.1
57.5°	387.2	395.8	404.4	397.9	391.7
60°	352.2	359.7	366.8	360.2	355.4
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	249.5	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	171.0
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)