

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: P488855

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-1HI-20-120-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: P488855
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-LD4-1HI-20-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

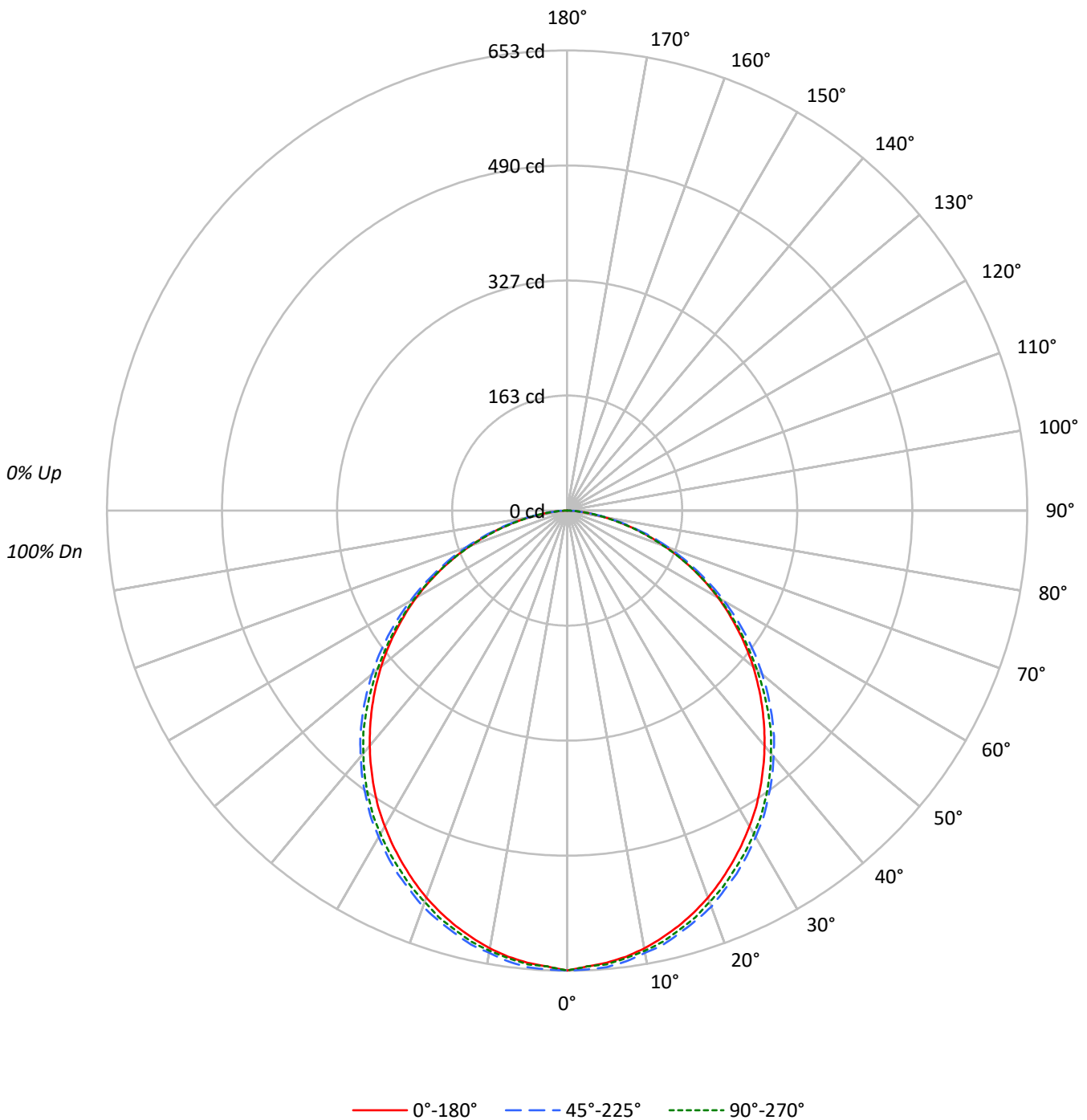
Lumens per Lamp: N/A
Luminaire Lumens: 1715.8 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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°	1756	1756	1756
5°	1740	1756	1746
10°	1724	1741	1733
15°	1700	1728	1716
20°	1674	1713	1692
25°	1641	1689	1669
30°	1608	1662	1647
35°	1572	1634	1619
40°	1531	1601	1581
45°	1488	1563	1533
50°	1443	1513	1473
55°	1391	1456	1411
60°	1331	1386	1344
65°	1255	1303	1256
70°	1154	1201	1142
75°	1017	1063	1001
80°	826	862	817
85°	574	614	599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.5	3.6
10°-20°	174.2	10.2
20°-30°	259.8	15.1
30°-40°	307.8	17.9
40°-50°	311.5	18.2
50°-60°	272.0	15.9
60°-70°	198.8	11.6
70°-80°	105.8	6.2
80°-90°	24.5	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°	495.4	28.9
0°-40°	803.3	46.8
0°-60°	1386.8	80.8
0°-90°	1715.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1715.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	653	653	653	653	653	
5°	644	645	650	652	646	61
15°	610	614	620	624	616	172
25°	553	559	569	571	562	255
35°	478	486	497	501	493	299
45°	391	398	411	411	403	302
55°	296	302	310	306	301	265
65°	197	201	205	200	197	195
75°	98	100	102	98	96	104
85°	19	19	20	20	19	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	652.6	652.6	652.6	652.6	652.6
2.5°	647.5	649.6	651.8	652.8	647.5
5°	644.1	645.4	650.2	651.7	646.2
7.5°	638.6	640.4	645.1	645.8	640.5
10°	630.9	634.2	637.3	640.7	634.3
12.5°	621.2	625.6	630.9	631.6	626.7
15°	610.3	614.3	620.1	623.9	615.8
17.5°	598.0	602.0	609.5	610.1	605.2
20°	584.4	589.3	598.2	599.8	591.0
22.5°	568.9	575.5	582.9	584.4	578.0
25°	552.6	559.4	568.7	570.8	562.1
27.5°	535.6	542.1	552.5	554.0	546.8
30°	517.4	523.5	534.9	537.4	530.0
32.5°	498.9	505.0	517.7	519.8	512.6
35°	478.4	485.8	497.3	500.8	492.7
37.5°	457.4	464.7	477.7	480.9	472.2
40°	435.7	442.9	455.8	458.4	450.0
42.5°	413.6	420.8	434.5	434.9	428.0
45°	390.9	397.8	410.6	411.0	402.9
47.5°	367.9	374.9	386.4	385.1	377.4
50°	344.7	351.3	361.3	358.7	351.9
52.5°	320.6	327.1	336.5	332.3	325.8
55°	296.4	302.4	310.3	305.8	300.7
57.5°	272.0	278.0	284.1	279.5	275.2
60°	247.4	252.7	257.6	253.0	249.7
62.5°	222.3	226.9	231.2	226.8	223.6
65°	197.1	201.1	204.6	200.5	197.2
67.5°	171.9	175.3	178.6	174.3	170.9
70°	146.7	149.7	152.7	148.3	145.1
72.5°	121.9	124.5	127.2	122.9	120.1
75°	97.8	100.0	102.2	98.5	96.3
77.5°	74.7	76.6	78.1	75.7	73.6
80°	53.3	54.7	55.6	54.7	52.7
82.5°	34.3	35.3	35.8	35.7	34.4
85°	18.6	19.0	19.9	20.1	19.4
87.5°	7.2	7.7	7.9	8.5	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)