

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: P488860

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-1HI-35-120-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: P488860
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-35-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

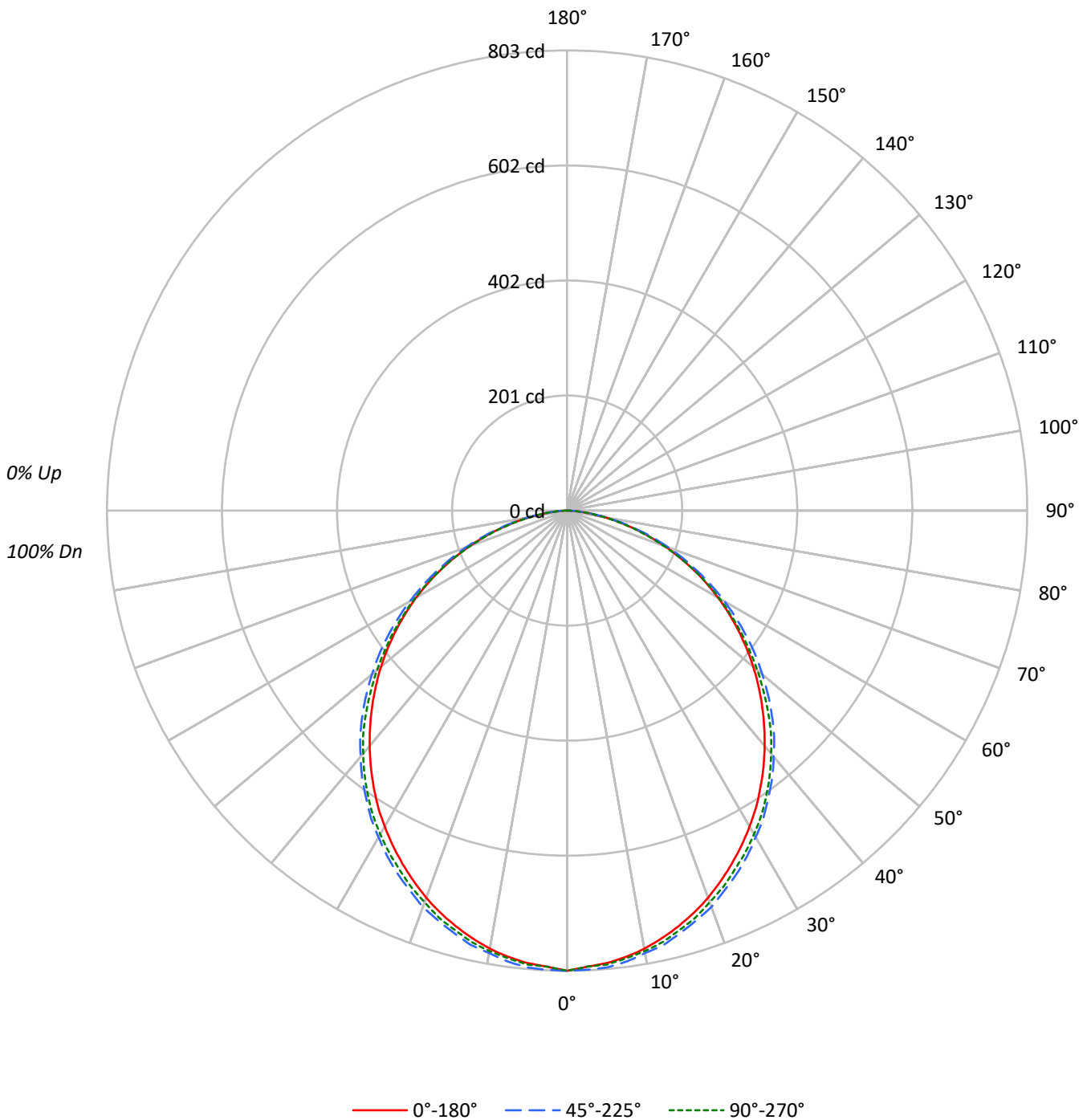
Lumens per Lamp: N/A
Luminaire Lumens: 2111.3 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	2161	2161	2161
5°	2141	2161	2148
10°	2122	2143	2133
15°	2092	2126	2111
20°	2059	2108	2083
25°	2019	2078	2054
30°	1978	2045	2027
35°	1934	2010	1992
40°	1884	1970	1945
45°	1831	1923	1886
50°	1775	1861	1813
55°	1711	1791	1736
60°	1638	1706	1653
65°	1544	1603	1545
70°	1421	1478	1405
75°	1251	1308	1232
80°	1017	1060	1004
85°	707	753	735



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.6	3.6
10°-20°	214.3	10.2
20°-30°	319.7	15.1
30°-40°	378.8	17.9
40°-50°	383.3	18.2
50°-60°	334.7	15.9
60°-70°	244.6	11.6
70°-80°	130.2	6.2
80°-90°	30.1	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°	609.6	28.9
0°-40°	988.4	46.8
0°-60°	1706.4	80.8
0°-90°	2111.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2111.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	803	803	803	803	803	
5°	793	794	800	802	795	75
15°	751	756	763	768	758	212
25°	680	688	700	702	692	313
35°	589	598	612	616	606	368
45°	481	490	505	506	496	371
55°	365	372	382	376	370	326
65°	242	247	252	247	243	240
75°	120	123	126	121	118	128
85°	23	23	24	25	24	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	803.1	803.1	803.1	803.1	803.1
2.5°	796.8	799.4	802.1	803.2	796.7
5°	792.6	794.1	800.1	801.9	795.1
7.5°	785.7	788.0	793.8	794.6	788.1
10°	776.4	780.4	784.2	788.4	780.5
12.5°	764.4	769.8	776.4	777.1	771.1
15°	750.9	756.0	763.1	767.7	757.7
17.5°	735.9	740.7	749.9	750.8	744.7
20°	719.1	725.1	736.1	738.1	727.3
22.5°	700.0	708.1	717.3	719.1	711.2
25°	680.0	688.4	699.7	702.3	691.7
27.5°	659.1	667.1	679.9	681.7	672.8
30°	636.6	644.2	658.2	661.3	652.2
32.5°	613.9	621.4	637.0	639.6	630.7
35°	588.6	597.8	612.0	616.2	606.3
37.5°	562.8	571.8	587.9	591.7	581.0
40°	536.2	545.0	560.8	564.0	553.7
42.5°	508.9	517.7	534.7	535.2	526.6
45°	481.0	489.6	505.3	505.7	495.7
47.5°	452.7	461.4	475.4	473.8	464.5
50°	424.1	432.3	444.6	441.4	433.0
52.5°	394.5	402.5	414.1	408.9	400.9
55°	364.7	372.1	381.8	376.3	370.1
57.5°	334.7	342.1	349.6	344.0	338.6
60°	304.4	310.9	317.0	311.3	307.2
62.5°	273.6	279.2	284.5	279.0	275.2
65°	242.5	247.4	251.8	246.7	242.6
67.5°	211.5	215.7	219.7	214.5	210.3
70°	180.6	184.2	187.8	182.5	178.6
72.5°	150.0	153.2	156.5	151.3	147.8
75°	120.3	123.1	125.8	121.2	118.5
77.5°	92.0	94.3	96.1	93.2	90.6
80°	65.6	67.4	68.4	67.3	64.8
82.5°	42.2	43.4	44.0	43.9	42.3
85°	22.9	23.3	24.4	24.7	23.8
87.5°	8.9	9.5	9.7	10.5	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)