

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: P488886

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-1STD-40-120-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: P488886
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-LD4-1STD-40-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

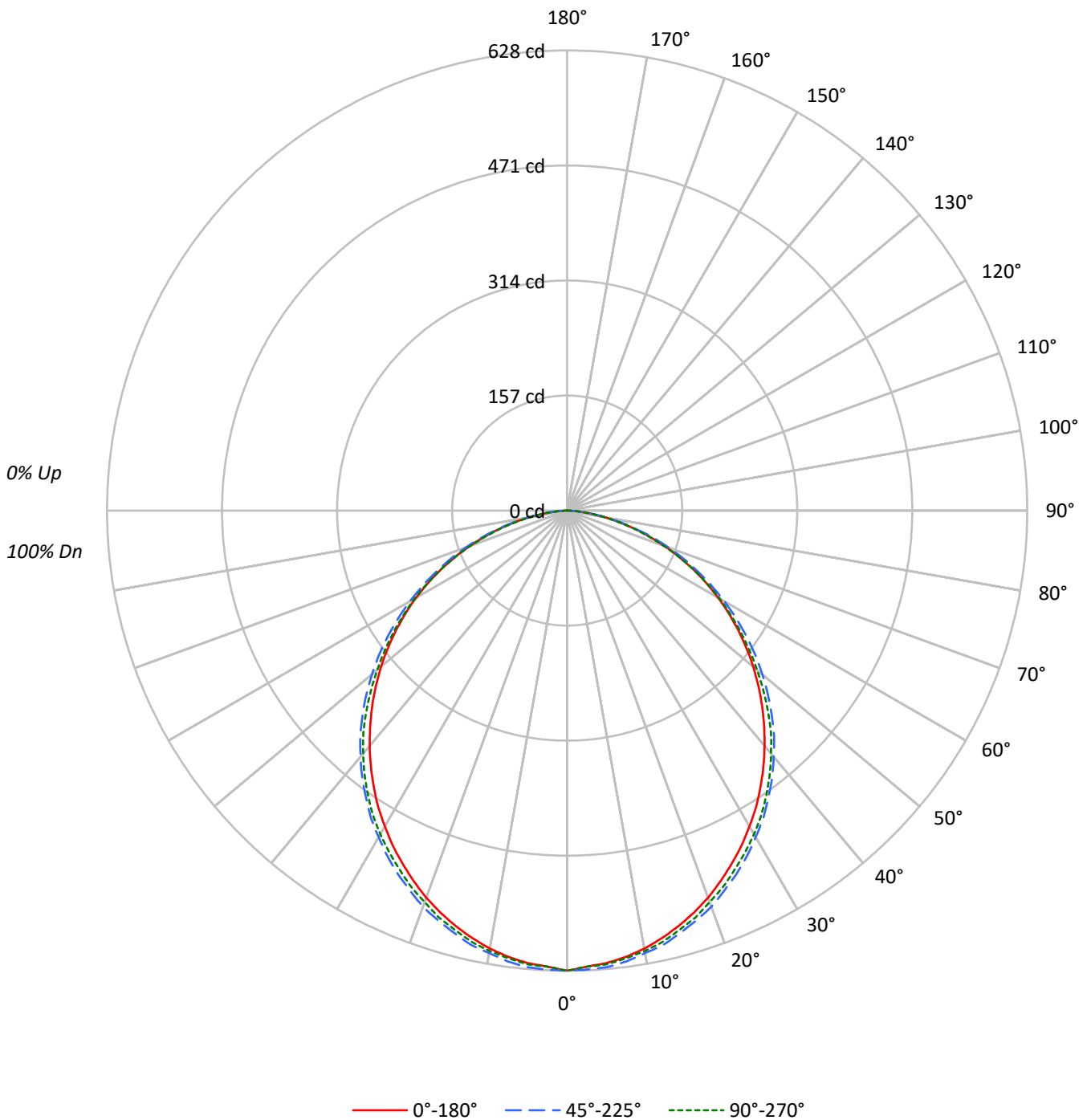
Lumens per Lamp: N/A
Luminaire Lumens: 1650.6 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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°	1689	1689	1689
5°	1674	1690	1679
10°	1659	1675	1667
15°	1636	1662	1650
20°	1610	1648	1628
25°	1578	1624	1606
30°	1546	1599	1584
35°	1512	1572	1557
40°	1473	1540	1521
45°	1431	1503	1475
50°	1388	1455	1417
55°	1338	1400	1357
60°	1281	1334	1293
65°	1207	1253	1208
70°	1111	1156	1098
75°	978	1022	963
80°	795	829	786
85°	553	590	574



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.1	3.6
10°-20°	167.6	10.2
20°-30°	249.9	15.1
30°-40°	296.1	17.9
40°-50°	299.7	18.2
50°-60°	261.7	15.9
60°-70°	191.2	11.6
70°-80°	101.8	6.2
80°-90°	23.5	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°	476.6	28.9
0°-40°	772.7	46.8
0°-60°	1334.1	80.8
0°-90°	1650.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1650.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	628	628	628	628	628	
5°	620	621	626	627	622	59
15°	587	591	597	600	592	166
25°	532	538	547	549	541	245
35°	460	467	478	482	474	288
45°	376	383	395	395	388	290
55°	285	291	298	294	289	255
65°	190	193	197	193	190	188
75°	94	96	98	95	93	100
85°	18	18	19	19	19	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	627.8	627.8	627.8	627.8	627.8
2.5°	622.9	625.0	627.0	628.0	622.9
5°	619.7	620.8	625.5	626.9	621.6
7.5°	614.3	616.1	620.6	621.2	616.1
10°	607.0	610.1	613.1	616.4	610.2
12.5°	597.6	601.9	607.0	607.6	602.8
15°	587.1	591.0	596.6	600.2	592.4
17.5°	575.3	579.1	586.3	586.9	582.2
20°	562.2	566.9	575.5	577.0	568.6
22.5°	547.2	553.6	560.8	562.2	556.0
25°	531.6	538.1	547.0	549.1	540.8
27.5°	515.3	521.5	531.5	533.0	526.0
30°	497.7	503.6	514.6	517.0	509.9
32.5°	479.9	485.8	498.0	500.0	493.1
35°	460.2	467.4	478.4	481.8	474.0
37.5°	440.0	447.0	459.6	462.6	454.2
40°	419.2	426.1	438.5	440.9	432.9
42.5°	397.8	404.8	418.0	418.4	411.7
45°	376.1	382.7	395.0	395.4	387.6
47.5°	353.9	360.7	371.7	370.4	363.1
50°	331.6	338.0	347.6	345.1	338.5
52.5°	308.4	314.6	323.7	319.7	313.5
55°	285.1	290.9	298.5	294.2	289.3
57.5°	261.7	267.5	273.3	268.9	264.7
60°	238.0	243.1	247.8	243.4	240.2
62.5°	213.9	218.3	222.4	218.2	215.1
65°	189.6	193.4	196.8	192.9	189.7
67.5°	165.4	168.6	171.8	167.7	164.4
70°	141.2	144.0	146.9	142.7	139.6
72.5°	117.3	119.8	122.3	118.3	115.6
75°	94.1	96.2	98.3	94.7	92.6
77.5°	71.9	73.7	75.2	72.9	70.8
80°	51.3	52.7	53.5	52.6	50.7
82.5°	33.0	33.9	34.4	34.3	33.1
85°	17.9	18.3	19.1	19.3	18.6
87.5°	6.9	7.4	7.6	8.2	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)