

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: P488862

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-1HI-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: P488862
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-40-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

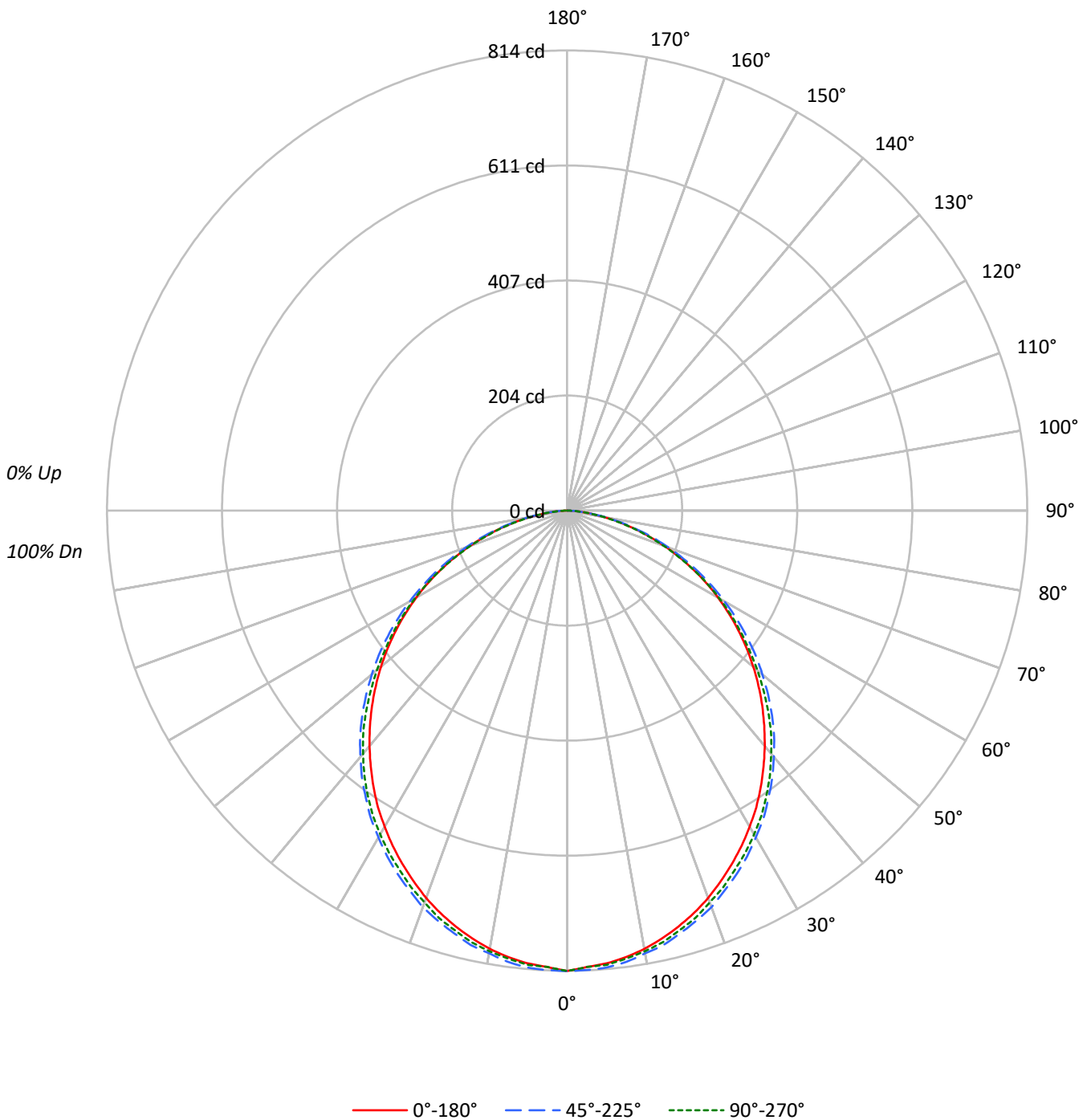
Lumens per Lamp: N/A
Luminaire Lumens: 2141.3 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	2192	2192	2192
5°	2172	2192	2178
10°	2152	2173	2163
15°	2122	2156	2141
20°	2088	2138	2112
25°	2048	2107	2083
30°	2006	2074	2055
35°	1961	2039	2020
40°	1910	1998	1973
45°	1857	1950	1913
50°	1801	1888	1838
55°	1735	1817	1761
60°	1661	1730	1677
65°	1566	1626	1567
70°	1441	1499	1425
75°	1268	1326	1250
80°	1031	1075	1020
85°	719	766	747



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.7	3.6
10°-20°	217.4	10.2
20°-30°	324.2	15.1
30°-40°	384.2	17.9
40°-50°	388.7	18.2
50°-60°	339.5	15.9
60°-70°	248.1	11.6
70°-80°	132.0	6.2
80°-90°	30.5	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°	618.3	28.9
0°-40°	1002.5	46.8
0°-60°	1730.7	80.8
0°-90°	2141.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2141.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	814	814	814	814	814	
5°	804	805	811	813	806	76
15°	762	767	774	779	768	215
25°	690	698	710	712	702	318
35°	597	606	621	625	615	373
45°	488	496	512	513	503	376
55°	370	377	387	382	375	331
65°	246	251	255	250	246	243
75°	122	125	128	123	120	130
85°	23	24	25	25	24	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	814.5	814.5	814.5	814.5	814.5
2.5°	808.1	810.7	813.5	814.6	808.0
5°	803.9	805.4	811.4	813.3	806.4
7.5°	796.9	799.2	805.1	805.9	799.3
10°	787.4	791.5	795.4	799.6	791.6
12.5°	775.3	780.8	787.4	788.2	782.1
15°	761.6	766.7	773.9	778.6	768.5
17.5°	746.3	751.3	760.6	761.4	755.3
20°	729.3	735.4	746.6	748.5	737.6
22.5°	709.9	718.2	727.5	729.4	721.3
25°	689.6	698.1	709.7	712.3	701.5
27.5°	668.4	676.6	689.6	691.4	682.3
30°	645.7	653.3	667.6	670.7	661.5
32.5°	622.6	630.2	646.0	648.7	639.7
35°	597.0	606.3	620.7	625.0	614.9
37.5°	570.8	579.9	596.2	600.1	589.3
40°	543.8	552.8	568.8	572.0	561.6
42.5°	516.1	525.1	542.2	542.8	534.1
45°	487.9	496.5	512.5	512.9	502.8
47.5°	459.2	467.9	482.2	480.6	471.1
50°	430.1	438.5	450.9	447.7	439.1
52.5°	400.1	408.2	420.0	414.7	406.6
55°	369.9	377.4	387.2	381.6	375.3
57.5°	339.4	347.0	354.5	348.9	343.4
60°	308.7	315.3	321.5	315.8	311.6
62.5°	277.5	283.2	288.5	283.0	279.1
65°	245.9	250.9	255.3	250.2	246.1
67.5°	214.5	218.8	222.8	217.6	213.3
70°	183.1	186.8	190.5	185.1	181.1
72.5°	152.2	155.4	158.7	153.4	149.9
75°	122.0	124.8	127.5	122.9	120.2
77.5°	93.3	95.6	97.5	94.5	91.9
80°	66.5	68.3	69.4	68.2	65.8
82.5°	42.8	44.0	44.6	44.6	42.9
85°	23.3	23.7	24.8	25.0	24.2
87.5°	9.0	9.6	9.8	10.6	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)