

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: P488883

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-1STD-30-120-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: P488883
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-30-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

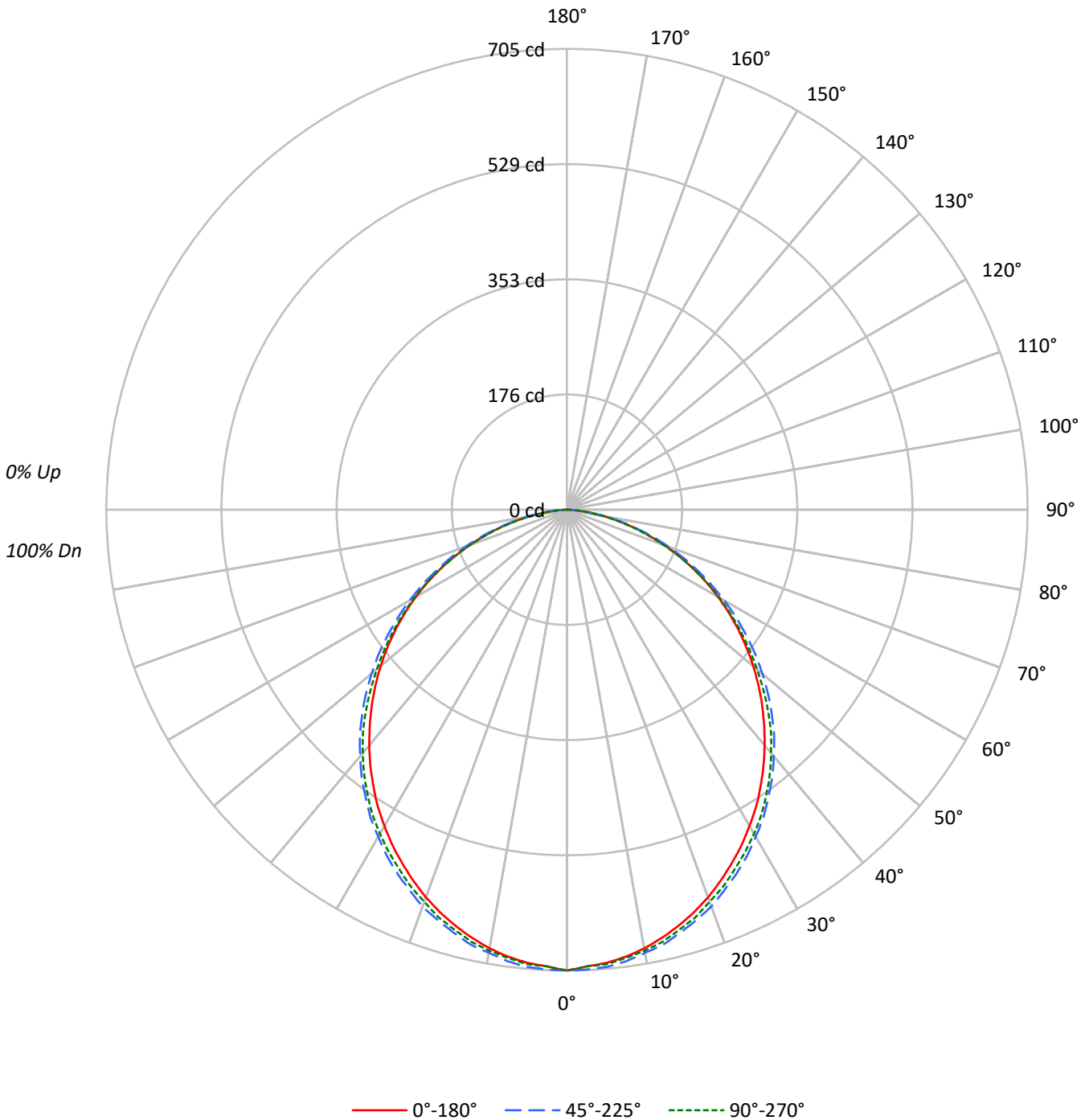
Lumens per Lamp: N/A
Luminaire Lumens: 1853.1 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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				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	50	30	10	50	30	10	
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100	100	
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85	85	85	85	85	85	
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71	71	71	71	71	71	
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60	60	60	60	60	60	
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51	51	51	51	51	51	
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45	45	45	45	45	45	
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39	39	39	39	39	39	
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35	35	35	35	35	35	
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31	31	31	31	31	31	
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28	28	28	28	28	28	
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25	25	25	25	25	25	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1897	1897	1897
5°	1879	1897	1885
10°	1862	1881	1872
15°	1836	1866	1853
20°	1807	1850	1828
25°	1772	1824	1803
30°	1736	1795	1779
35°	1697	1764	1748
40°	1653	1729	1707
45°	1607	1688	1656
50°	1559	1634	1591
55°	1502	1572	1524
60°	1438	1498	1452
65°	1355	1407	1356
70°	1247	1297	1233
75°	1098	1148	1081
80°	893	931	882
85°	621	661	645



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.4	3.6
10°-20°	188.1	10.2
20°-30°	280.6	15.1
30°-40°	332.5	17.9
40°-50°	336.4	18.2
50°-60°	293.8	15.9
60°-70°	214.7	11.6
70°-80°	114.2	6.2
80°-90°	26.4	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°	535.1	28.9
0°-40°	867.5	46.8
0°-60°	1497.8	80.8
0°-90°	1853.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1853.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	705	705	705	705	705	
5°	696	697	702	704	698	66
15°	659	664	670	674	665	186
25°	597	604	614	616	607	275
35°	517	525	537	541	532	323
45°	422	430	444	444	435	326
55°	320	327	335	330	325	286
65°	213	217	221	217	213	211
75°	106	108	110	106	104	112
85°	20	20	21	22	21	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	704.9	704.9	704.9	704.9	704.9
2.5°	699.3	701.6	704.0	705.0	699.3
5°	695.7	697.0	702.2	703.8	697.9
7.5°	689.7	691.6	696.7	697.4	691.7
10°	681.4	685.0	688.3	692.0	685.0
12.5°	670.9	675.7	681.4	682.1	676.8
15°	659.1	663.5	669.8	673.8	665.1
17.5°	645.9	650.1	658.2	659.0	653.7
20°	631.1	636.4	646.1	647.8	638.3
22.5°	614.4	621.5	629.6	631.2	624.2
25°	596.8	604.2	614.2	616.4	607.1
27.5°	578.5	585.5	596.8	598.4	590.5
30°	558.8	565.4	577.7	580.5	572.4
32.5°	538.8	545.4	559.1	561.4	553.6
35°	516.6	524.7	537.1	540.9	532.1
37.5°	494.0	501.9	516.0	519.4	510.0
40°	470.6	478.4	492.3	495.0	486.0
42.5°	446.6	454.4	469.3	469.7	462.2
45°	422.2	429.7	443.5	443.9	435.1
47.5°	397.4	404.9	417.3	415.9	407.7
50°	372.3	379.5	390.2	387.5	380.0
52.5°	346.3	353.2	363.4	358.9	351.9
55°	320.1	326.6	335.1	330.2	324.8
57.5°	293.8	300.3	306.8	301.9	297.2
60°	267.2	272.9	278.3	273.3	269.7
62.5°	240.1	245.1	249.7	244.9	241.5
65°	212.8	217.2	221.0	216.6	213.0
67.5°	185.7	189.3	192.8	188.3	184.5
70°	158.5	161.6	164.9	160.2	156.7
72.5°	131.7	134.5	137.3	132.8	129.8
75°	105.6	108.0	110.4	106.3	104.0
77.5°	80.7	82.8	84.4	81.8	79.5
80°	57.6	59.1	60.1	59.0	56.9
82.5°	37.0	38.1	38.6	38.6	37.2
85°	20.1	20.5	21.4	21.7	20.9
87.5°	7.8	8.3	8.5	9.2	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)