

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: P488939

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-3LO-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: P488939
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-LD4-3LO-20-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

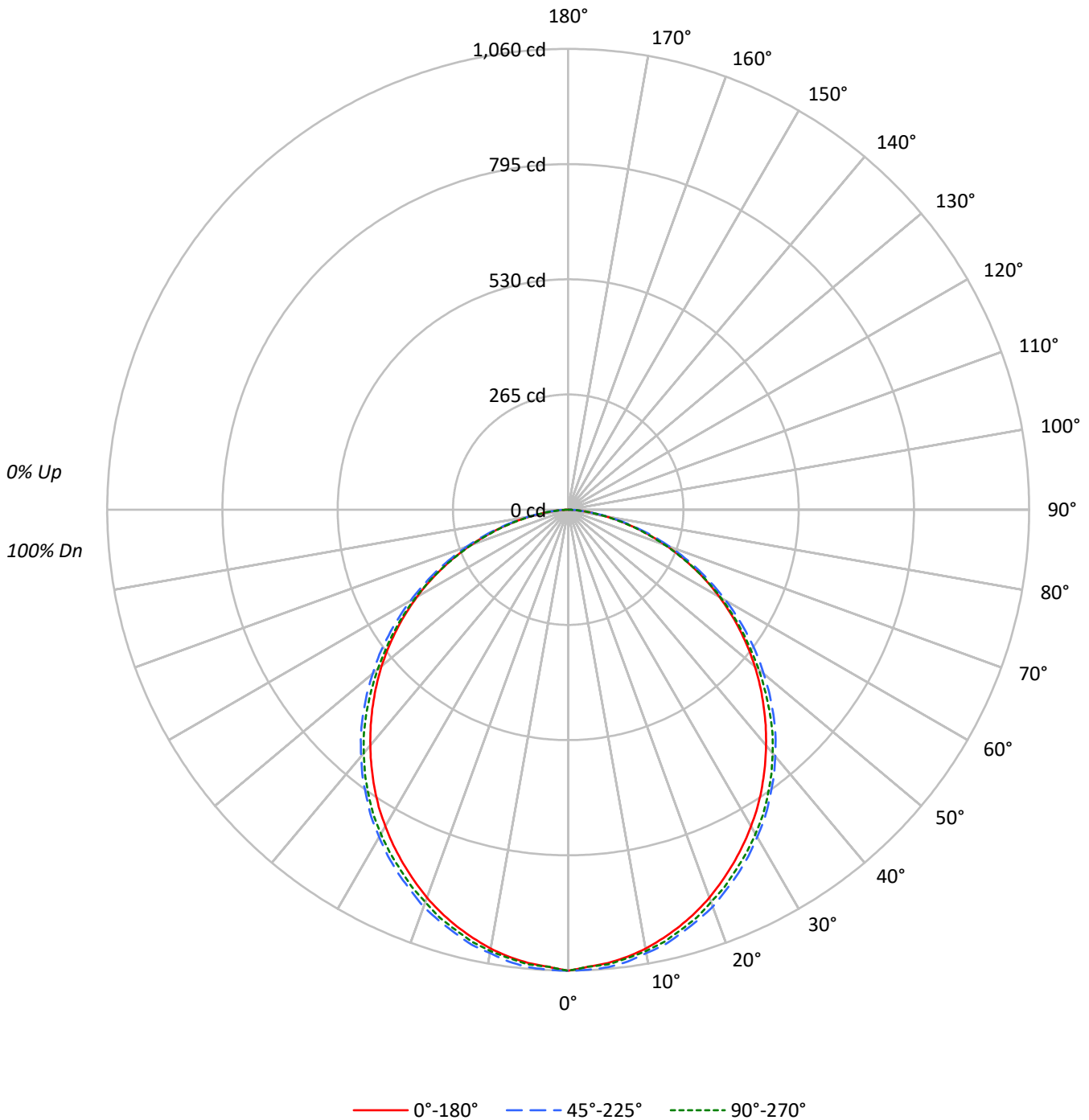
Lumens per Lamp: N/A
Luminaire Lumens: 2788.1 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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°	2854	2854	2854
5°	2827	2854	2836
10°	2801	2830	2816
15°	2763	2807	2788
20°	2719	2784	2750
25°	2666	2744	2712
30°	2612	2701	2676
35°	2553	2655	2630
40°	2487	2602	2569
45°	2417	2539	2492
50°	2345	2458	2394
55°	2259	2365	2293
60°	2164	2253	2183
65°	2039	2117	2040
70°	1876	1952	1855
75°	1652	1727	1627
80°	1342	1401	1327
85°	936	997	973



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	3.6
10°-20°	283.0	10.2
20°-30°	422.1	15.1
30°-40°	500.2	17.9
40°-50°	506.1	18.2
50°-60°	442.1	15.9
60°-70°	323.0	11.6
70°-80°	171.9	6.2
80°-90°	39.7	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°	805.0	28.9
0°-40°	1305.3	46.8
0°-60°	2253.5	80.8
0°-90°	2788.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2788.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1060	1060	1060	1060	1060	
5°	1047	1049	1056	1059	1050	99
15°	992	998	1008	1014	1001	280
25°	898	909	924	928	913	414
35°	777	790	808	814	801	486
45°	635	646	667	668	655	490
55°	482	491	504	497	489	431
65°	320	327	332	326	320	317
75°	159	162	166	160	156	169
85°	30	31	32	33	32	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1060.5	1060.5	1060.5	1060.5	1060.5
2.5°	1052.2	1055.6	1059.2	1060.7	1052.1
5°	1046.7	1048.7	1056.5	1058.9	1050.0
7.5°	1037.6	1040.6	1048.2	1049.3	1040.7
10°	1025.2	1030.6	1035.6	1041.2	1030.7
12.5°	1009.4	1016.6	1025.2	1026.2	1018.3
15°	991.7	998.3	1007.7	1013.8	1000.6
17.5°	971.8	978.2	990.3	991.4	983.5
20°	949.6	957.5	972.1	974.6	960.4
22.5°	924.4	935.1	947.2	949.7	939.2
25°	898.0	909.0	924.0	927.5	913.4
27.5°	870.3	880.9	897.9	900.3	888.5
30°	840.7	850.7	869.2	873.3	861.3
32.5°	810.7	820.6	841.2	844.6	832.9
35°	777.3	789.5	808.1	813.8	800.6
37.5°	743.3	755.1	776.3	781.4	767.3
40°	708.0	719.7	740.6	744.8	731.2
42.5°	672.0	683.7	706.0	706.7	695.4
45°	635.2	646.5	667.3	667.8	654.7
47.5°	597.9	609.2	627.8	625.7	613.3
50°	560.1	570.9	587.1	583.0	571.8
52.5°	521.0	531.5	546.8	540.0	529.5
55°	481.6	491.4	504.2	496.9	488.7
57.5°	442.0	451.8	461.6	454.2	447.2
60°	402.0	410.6	418.7	411.1	405.7
62.5°	361.3	368.7	375.7	368.5	363.4
65°	320.2	326.7	332.5	325.8	320.4
67.5°	279.3	284.8	290.1	283.3	277.7
70°	238.4	243.2	248.1	241.0	235.8
72.5°	198.1	202.3	206.6	199.8	195.2
75°	158.9	162.5	166.1	160.0	156.5
77.5°	121.4	124.5	127.0	123.1	119.7
80°	86.6	88.9	90.4	88.8	85.6
82.5°	55.7	57.3	58.1	58.0	55.9
85°	30.3	30.8	32.3	32.6	31.5
87.5°	11.7	12.5	12.8	13.8	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)