

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: P488867

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-1LO-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: P488867
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-LD4-1LO-20-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

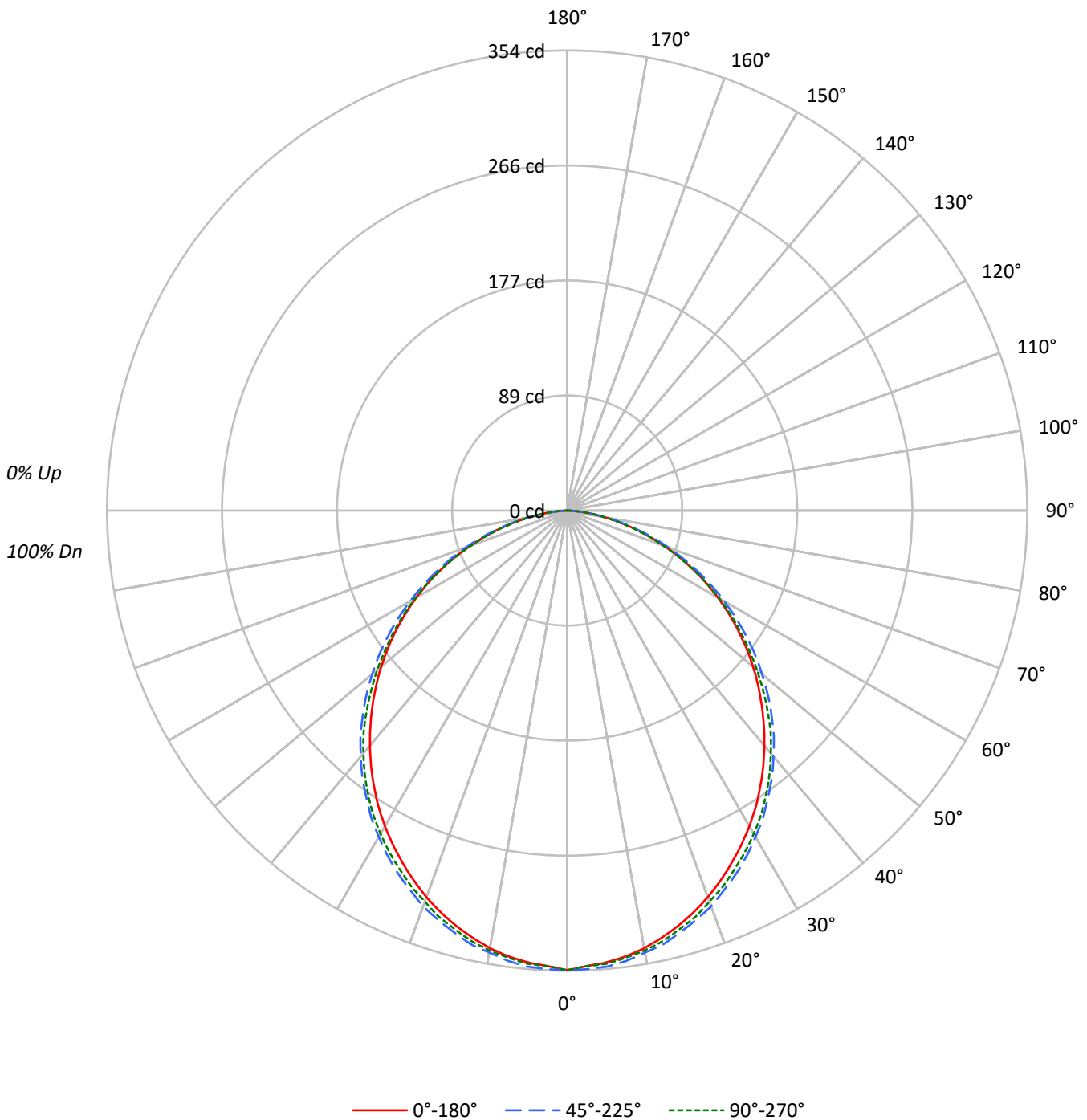
Lumens per Lamp: N/A
Luminaire Lumens: 929.4 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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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CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-1LO-20-120-EDD

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°	951	951	951
5°	942	951	945
10°	934	943	939
15°	921	936	929
20°	906	928	917
25°	889	915	904
30°	871	900	892
35°	851	885	877
40°	829	867	856
45°	806	846	830
50°	782	819	798
55°	753	789	764
60°	721	751	728
65°	679	706	680
70°	625	651	618
75°	551	576	543
80°	448	466	442
85°	312	333	324



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.3	3.6
10°-20°	94.3	10.2
20°-30°	140.7	15.1
30°-40°	166.8	17.9
40°-50°	168.7	18.2
50°-60°	147.4	15.9
60°-70°	107.7	11.6
70°-80°	57.3	6.2
80°-90°	13.2	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°	268.4	28.9
0°-40°	435.1	46.8
0°-60°	751.2	80.8
0°-90°	929.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	929.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	354	354	354	354	354	
5°	349	350	352	353	350	33
15°	331	333	336	338	334	93
25°	299	303	308	309	304	138
35°	259	263	269	271	267	162
45°	212	216	222	223	218	163
55°	160	164	168	166	163	144
65°	107	109	111	109	107	106
75°	53	54	55	53	52	56
85°	10	10	11	11	10	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	353.5	353.5	353.5	353.5	353.5
2.5°	350.7	351.9	353.1	353.6	350.7
5°	348.9	349.6	352.2	353.0	350.0
7.5°	345.9	346.9	349.4	349.8	346.9
10°	341.8	343.5	345.2	347.1	343.6
12.5°	336.5	338.9	341.8	342.1	339.4
15°	330.6	332.8	335.9	337.9	333.5
17.5°	323.9	326.1	330.1	330.5	327.8
20°	316.5	319.2	324.0	324.9	320.1
22.5°	308.1	311.7	315.8	316.6	313.1
25°	299.3	303.0	308.0	309.2	304.5
27.5°	290.1	293.7	299.3	300.1	296.2
30°	280.3	283.6	289.8	291.1	287.1
32.5°	270.2	273.5	280.4	281.5	277.6
35°	259.1	263.2	269.4	271.3	266.9
37.5°	247.8	251.7	258.8	260.5	255.8
40°	236.0	239.9	246.9	248.3	243.8
42.5°	224.0	227.9	235.4	235.6	231.8
45°	211.7	215.5	222.4	222.6	218.2
47.5°	199.3	203.1	209.3	208.6	204.5
50°	186.7	190.3	195.7	194.3	190.6
52.5°	173.7	177.2	182.3	180.0	176.5
55°	160.5	163.8	168.1	165.6	162.9
57.5°	147.3	150.6	153.9	151.4	149.1
60°	134.0	136.9	139.6	137.1	135.2
62.5°	120.4	122.9	125.2	122.8	121.1
65°	106.7	108.9	110.8	108.6	106.8
67.5°	93.1	95.0	96.7	94.4	92.6
70°	79.5	81.1	82.7	80.3	78.6
72.5°	66.0	67.4	68.9	66.6	65.1
75°	53.0	54.2	55.4	53.3	52.2
77.5°	40.5	41.5	42.3	41.0	39.9
80°	28.9	29.6	30.1	29.6	28.5
82.5°	18.6	19.1	19.4	19.3	18.6
85°	10.1	10.3	10.8	10.9	10.5
87.5°	3.9	4.2	4.3	4.6	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)