

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: P488868

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-1LO-27-120-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: P488868
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-27-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

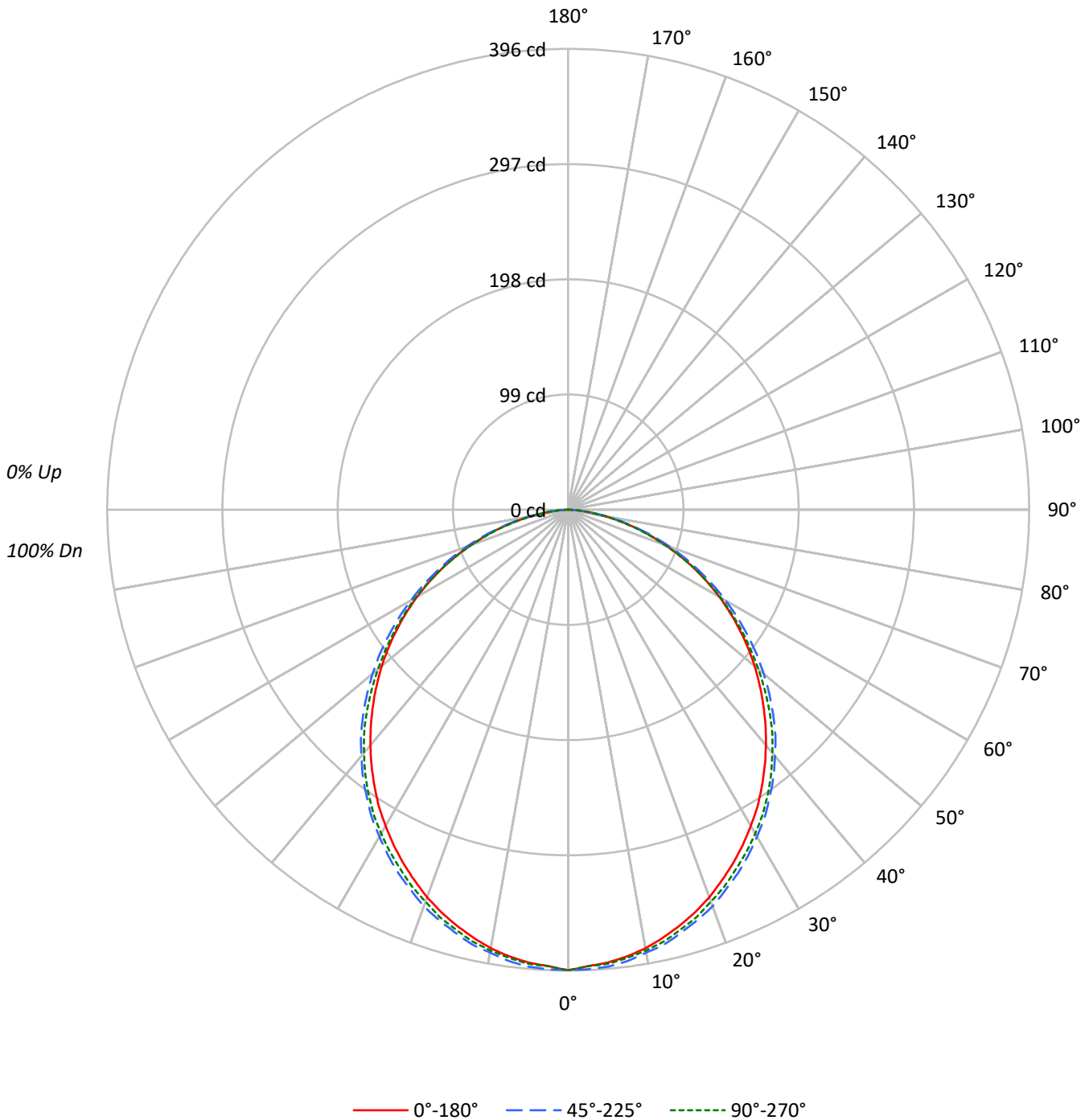
Lumens per Lamp: N/A
Luminaire Lumens: 1040.4 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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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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°	1065	1065	1065
5°	1055	1065	1058
10°	1045	1056	1051
15°	1031	1048	1040
20°	1015	1039	1026
25°	995	1024	1012
30°	975	1008	999
35°	953	991	982
40°	928	971	959
45°	902	948	930
50°	875	917	893
55°	843	882	856
60°	807	841	815
65°	761	790	762
70°	700	729	692
75°	617	645	607
80°	501	522	496
85°	349	371	364



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.3	3.6
10°-20°	105.6	10.2
20°-30°	157.5	15.1
30°-40°	186.7	17.9
40°-50°	188.9	18.2
50°-60°	165.0	15.9
60°-70°	120.5	11.6
70°-80°	64.1	6.2
80°-90°	14.8	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°	300.4	28.9
0°-40°	487.1	46.8
0°-60°	840.9	80.8
0°-90°	1040.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1040.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	396	396	396	396	396	
5°	391	391	394	395	392	37
15°	370	372	376	378	373	104
25°	335	339	345	346	341	154
35°	290	295	302	304	299	181
45°	237	241	249	249	244	183
55°	180	183	188	185	182	161
65°	120	122	124	122	120	118
75°	59	61	62	60	58	63
85°	11	12	12	12	12	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	395.7	395.7	395.7	395.7	395.7
2.5°	392.6	393.9	395.2	395.8	392.6
5°	390.6	391.3	394.2	395.2	391.8
7.5°	387.2	388.3	391.2	391.6	388.4
10°	382.6	384.6	386.5	388.5	384.6
12.5°	376.7	379.4	382.6	382.9	380.0
15°	370.0	372.5	376.0	378.3	373.4
17.5°	362.6	365.0	369.5	370.0	367.0
20°	354.3	357.3	362.7	363.7	358.4
22.5°	344.9	348.9	353.5	354.4	350.5
25°	335.1	339.2	344.8	346.1	340.9
27.5°	324.8	328.7	335.0	335.9	331.5
30°	313.7	317.4	324.4	325.9	321.4
32.5°	302.5	306.2	313.9	315.2	310.8
35°	290.1	294.6	301.6	303.7	298.8
37.5°	277.4	281.8	289.7	291.6	286.3
40°	264.2	268.6	276.4	277.9	272.9
42.5°	250.8	255.1	263.5	263.7	259.5
45°	237.0	241.2	249.0	249.2	244.3
47.5°	223.1	227.3	234.3	233.5	228.9
50°	209.0	213.0	219.1	217.5	213.4
52.5°	194.4	198.3	204.1	201.5	197.6
55°	179.7	183.4	188.1	185.4	182.4
57.5°	164.9	168.6	172.3	169.5	166.9
60°	150.0	153.2	156.2	153.4	151.4
62.5°	134.8	137.6	140.2	137.5	135.6
65°	119.5	121.9	124.1	121.6	119.6
67.5°	104.2	106.3	108.3	105.7	103.6
70°	89.0	90.7	92.6	89.9	88.0
72.5°	73.9	75.5	77.1	74.5	72.9
75°	59.3	60.7	62.0	59.7	58.4
77.5°	45.3	46.5	47.4	45.9	44.7
80°	32.3	33.2	33.7	33.1	32.0
82.5°	20.8	21.4	21.7	21.6	20.9
85°	11.3	11.5	12.0	12.2	11.8
87.5°	4.4	4.7	4.8	5.2	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)