

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: P488872

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-1LO-35-120-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: P488872
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-35-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

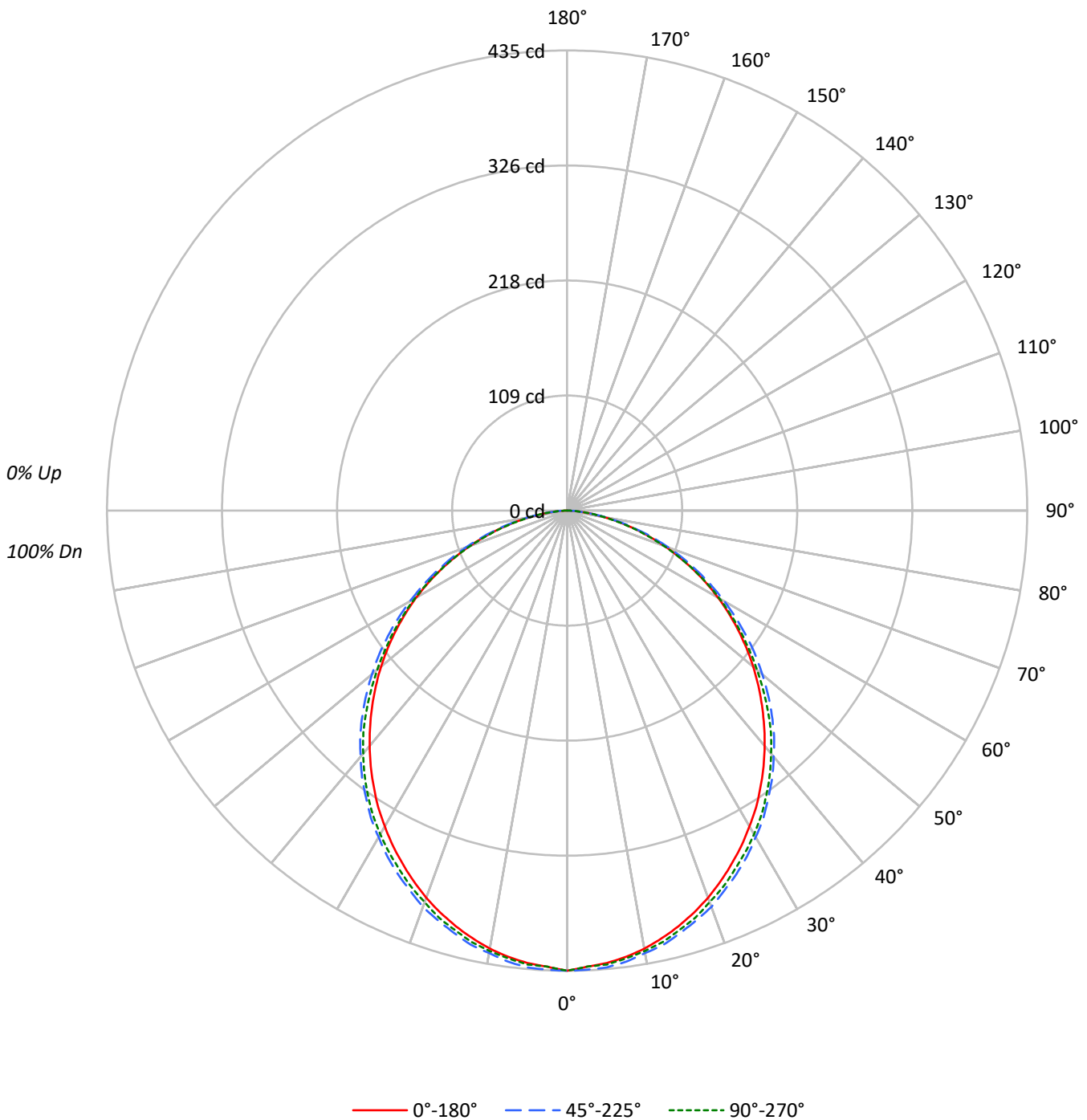
Lumens per Lamp: N/A
Luminaire Lumens: 1143.6 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P488872

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-1LO-35-120-EDD-90

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°	1171	1171	1171
5°	1160	1171	1163
10°	1149	1161	1155
15°	1133	1151	1143
20°	1115	1142	1128
25°	1094	1125	1113
30°	1071	1108	1098
35°	1047	1089	1079
40°	1020	1067	1053
45°	991	1042	1022
50°	962	1008	982
55°	927	970	941
60°	887	924	896
65°	836	869	837
70°	769	800	761
75°	678	708	667
80°	550	575	544
85°	383	408	398



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.0	3.6
10°-20°	116.1	10.2
20°-30°	173.1	15.1
30°-40°	205.2	17.9
40°-50°	207.6	18.2
50°-60°	181.3	15.9
60°-70°	132.5	11.6
70°-80°	70.5	6.2
80°-90°	16.3	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°	330.2	28.9
0°-40°	535.4	46.8
0°-60°	924.3	80.8
0°-90°	1143.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1143.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	435	435	435	435	435	
5°	429	430	433	434	431	41
15°	407	410	413	416	410	115
25°	368	373	379	380	375	170
35°	319	324	332	334	328	199
45°	260	265	274	274	268	201
55°	198	202	207	204	200	177
65°	131	134	136	134	131	130
75°	65	67	68	66	64	69
85°	12	13	13	13	13	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	435.0	435.0	435.0	435.0	435.0
2.5°	431.6	433.0	434.4	435.1	431.5
5°	429.3	430.1	433.4	434.4	430.7
7.5°	425.6	426.8	430.0	430.4	426.9
10°	420.5	422.7	424.8	427.1	422.7
12.5°	414.0	417.0	420.5	420.9	417.7
15°	406.8	409.5	413.3	415.8	410.4
17.5°	398.6	401.2	406.2	406.7	403.4
20°	389.5	392.7	398.7	399.8	393.9
22.5°	379.2	383.5	388.5	389.5	385.2
25°	368.3	372.9	379.0	380.4	374.7
27.5°	357.0	361.3	368.3	369.3	364.4
30°	344.8	348.9	356.5	358.2	353.3
32.5°	332.5	336.6	345.0	346.4	341.6
35°	318.8	323.8	331.5	333.8	328.4
37.5°	304.9	309.7	318.4	320.5	314.7
40°	290.4	295.2	303.8	305.5	299.9
42.5°	275.6	280.4	289.6	289.9	285.2
45°	260.5	265.2	273.7	273.9	268.5
47.5°	245.2	249.9	257.5	256.6	251.6
50°	229.7	234.2	240.8	239.1	234.5
52.5°	213.7	218.0	224.3	221.5	217.2
55°	197.6	201.5	206.8	203.8	200.5
57.5°	181.3	185.3	189.3	186.3	183.4
60°	164.9	168.4	171.7	168.6	166.4
62.5°	148.2	151.2	154.1	151.1	149.1
65°	131.3	134.0	136.4	133.6	131.4
67.5°	114.6	116.8	119.0	116.2	113.9
70°	97.8	99.8	101.7	98.8	96.7
72.5°	81.3	83.0	84.7	81.9	80.1
75°	65.2	66.7	68.1	65.6	64.2
77.5°	49.8	51.1	52.1	50.5	49.1
80°	35.5	36.5	37.1	36.4	35.1
82.5°	22.8	23.5	23.8	23.8	22.9
85°	12.4	12.6	13.2	13.4	12.9
87.5°	4.8	5.1	5.3	5.7	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)