

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: P489236

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-1LO-50-120-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: P489236  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387254)  
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-P12125-LD4-1LO-50-120-EDD-90  
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

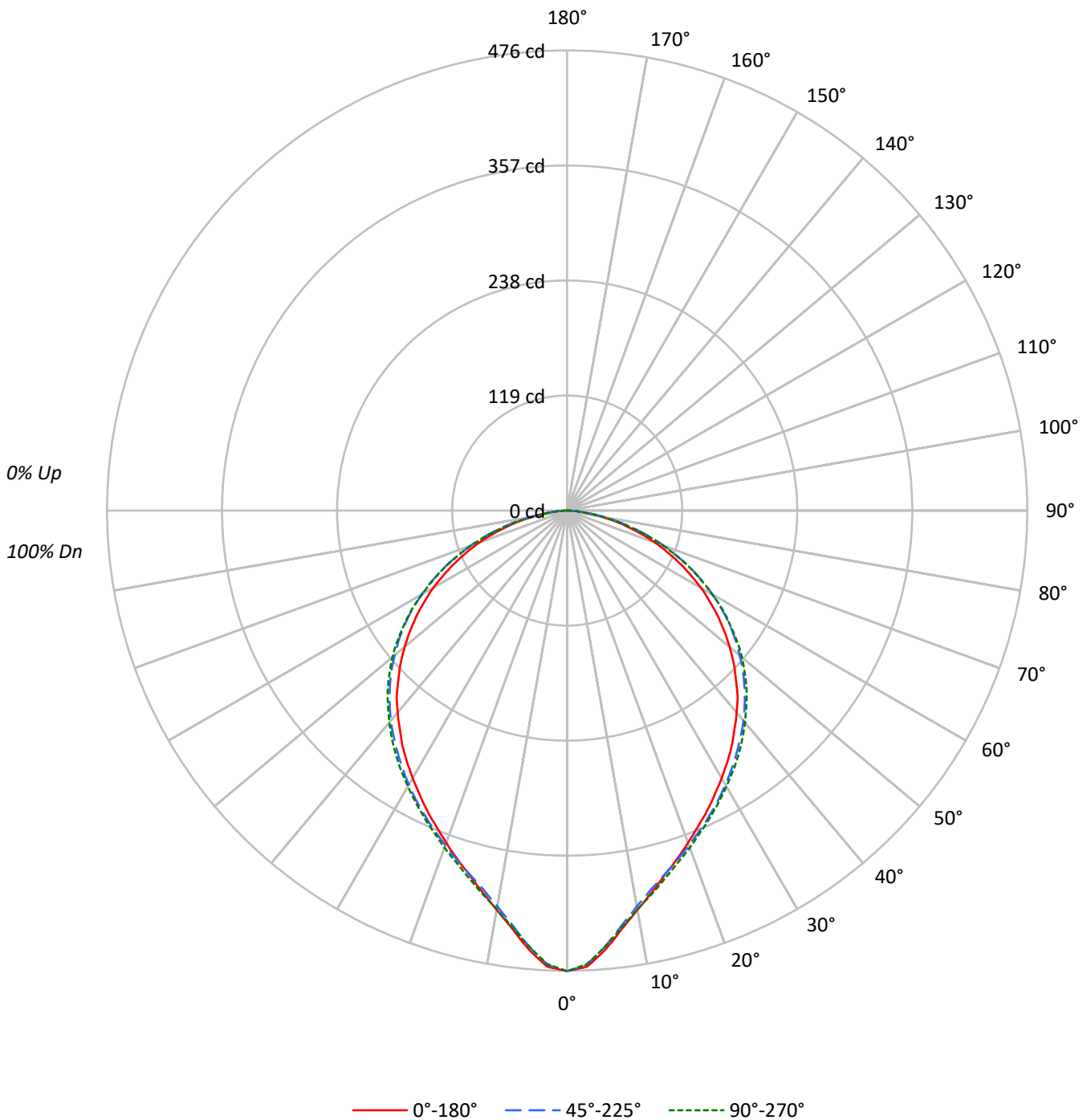
Lumens per Lamp: N/A  
Luminaire Lumens: 1106.6 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1282	1282	1282
5°	1231	1222	1222
10°	1146	1135	1144
15°	1087	1085	1096
20°	1047	1055	1063
25°	1017	1034	1040
30°	993	1017	1024
35°	976	1004	1014
40°	958	997	1006
45°	939	988	999
50°	918	975	988
55°	892	961	965
60°	861	935	933
65°	816	899	893
70°	762	838	828
75°	672	742	735
80°	545	604	575
85°	380	386	371



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.1	3.8
10°-20°	110.3	10.0
20°-30°	160.4	14.5
30°-40°	190.8	17.2
40°-50°	198.1	17.9
50°-60°	179.5	16.2
60°-70°	135.4	12.2
70°-80°	73.8	6.7
80°-90°	16.2	1.5
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°	312.7	28.3
0°-40°	503.5	45.5
0°-60°	881.1	79.6
0°-90°	1106.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1106.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	476	476	476	476	476	
5°	456	455	452	452	452	42
15°	390	389	390	392	393	110
25°	343	346	348	351	350	158
35°	297	301	306	310	309	186
45°	247	251	260	262	263	191
55°	190	195	205	206	206	170
65°	128	132	141	141	140	127
75°	65	67	71	72	71	69
85°	12	12	12	12	12	15
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	476.4	476.4	476.4	476.4	476.4
2.5°	472.2	471.8	470.2	469.6	469.5
5°	455.7	454.6	452.5	452.2	452.5
7.5°	435.9	434.7	432.6	433.4	434.5
10°	419.3	416.3	415.5	416.6	418.7
12.5°	404.4	402.0	401.3	404.4	405.8
15°	390.2	389.3	389.5	392.1	393.3
17.5°	378.0	377.4	378.9	380.9	381.5
20°	365.7	366.9	368.3	370.5	371.2
22.5°	353.7	355.9	358.3	361.2	360.2
25°	342.6	345.5	348.2	351.1	350.2
27.5°	330.8	334.1	338.0	341.1	339.9
30°	319.5	323.7	327.4	331.2	329.4
32.5°	308.3	312.2	316.7	321.3	319.3
35°	297.0	300.6	305.7	310.3	308.8
37.5°	284.5	288.9	294.7	298.8	297.7
40°	272.8	276.9	283.9	286.5	286.3
42.5°	261.1	264.4	271.8	274.7	274.3
45°	246.7	251.1	259.5	262.4	262.6
47.5°	233.9	237.6	246.7	248.9	249.4
50°	219.3	223.9	233.0	235.7	236.1
52.5°	204.9	209.9	219.2	221.1	221.4
55°	190.2	194.7	204.9	206.3	205.7
57.5°	174.9	180.3	189.6	190.3	190.9
60°	159.9	164.6	173.7	174.6	173.3
62.5°	143.6	148.4	157.7	158.0	156.9
65°	128.1	131.8	141.2	140.9	140.2
67.5°	111.9	116.4	123.3	123.6	123.0
70°	96.8	99.9	106.5	106.7	105.2
72.5°	80.5	83.8	89.2	88.4	88.1
75°	64.6	67.3	71.4	71.9	70.7
77.5°	50.1	52.0	55.1	54.8	53.4
80°	35.2	36.8	39.0	38.6	37.1
82.5°	22.5	23.5	24.9	24.3	23.7
85°	12.3	12.4	12.5	12.4	12.0
87.5°	4.5	4.6	4.6	4.5	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)