

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: P489235

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-1LO-40-120-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: P489235  
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-40-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

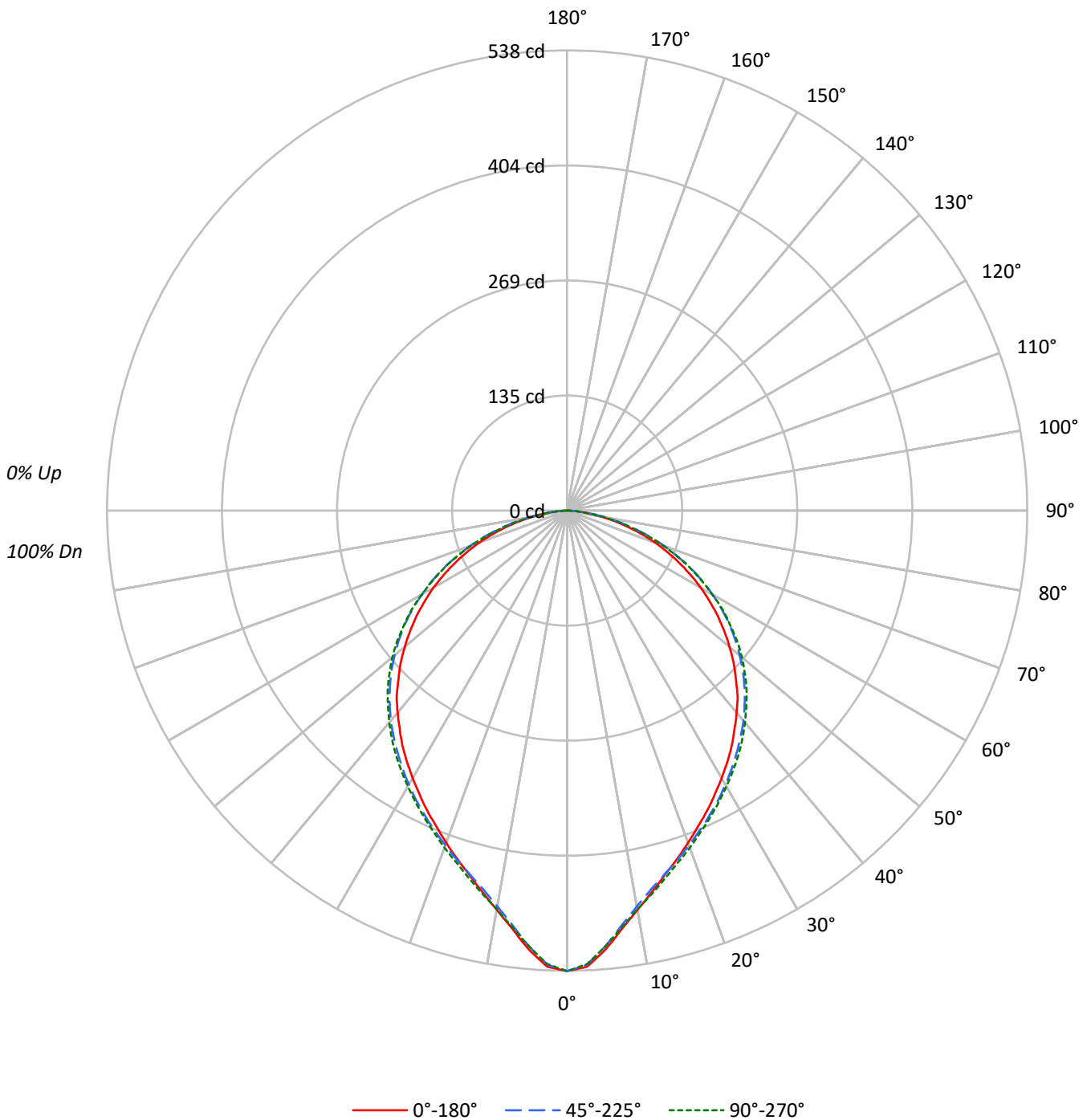
Lumens per Lamp: N/A  
Luminaire Lumens: 1250.7 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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°	1449	1449	1449
5°	1391	1381	1381
10°	1295	1283	1293
15°	1229	1226	1238
20°	1184	1192	1201
25°	1150	1168	1175
30°	1122	1150	1157
35°	1103	1135	1146
40°	1083	1127	1137
45°	1061	1116	1130
50°	1037	1102	1117
55°	1009	1086	1091
60°	973	1056	1054
65°	922	1016	1009
70°	861	947	935
75°	760	839	831
80°	617	683	651
85°	429	435	420



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.6	3.8
10°-20°	124.6	10.0
20°-30°	181.2	14.5
30°-40°	215.7	17.2
40°-50°	223.9	17.9
50°-60°	202.9	16.2
60°-70°	153.1	12.2
70°-80°	83.4	6.7
80°-90°	18.3	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°	353.4	28.3
0°-40°	569.1	45.5
0°-60°	995.9	79.6
0°-90°	1250.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1250.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	538	538	538	538	538	
5°	515	514	511	511	511	48
15°	441	440	440	443	444	124
25°	387	390	394	397	396	178
35°	336	340	346	351	349	210
45°	279	284	293	296	297	216
55°	215	220	232	233	232	192
65°	145	149	160	159	158	143
75°	73	76	81	81	80	78
85°	14	14	14	14	14	17
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	538.4	538.4	538.4	538.4	538.4
2.5°	533.7	533.2	531.4	530.8	530.6
5°	515.0	513.8	511.4	511.1	511.4
7.5°	492.7	491.4	488.9	489.9	491.1
10°	473.9	470.5	469.6	470.9	473.2
12.5°	457.0	454.4	453.5	457.0	458.7
15°	441.0	440.0	440.2	443.2	444.5
17.5°	427.2	426.5	428.3	430.5	431.2
20°	413.3	414.7	416.3	418.7	419.5
22.5°	399.7	402.3	405.0	408.2	407.1
25°	387.2	390.4	393.5	396.8	395.8
27.5°	373.9	377.7	382.0	385.5	384.1
30°	361.1	365.8	370.0	374.3	372.3
32.5°	348.5	352.9	357.9	363.1	360.8
35°	335.7	339.7	345.5	350.8	349.0
37.5°	321.6	326.5	333.1	337.7	336.5
40°	308.4	313.0	320.9	323.9	323.6
42.5°	295.1	298.8	307.2	310.5	310.0
45°	278.8	283.8	293.3	296.5	296.8
47.5°	264.4	268.6	278.8	281.3	281.9
50°	247.8	253.1	263.3	266.4	266.8
52.5°	231.5	237.2	247.7	249.8	250.3
55°	215.0	220.1	231.5	233.2	232.5
57.5°	197.6	203.8	214.3	215.1	215.8
60°	180.7	186.1	196.3	197.4	195.9
62.5°	162.3	167.8	178.3	178.5	177.3
65°	144.8	148.9	159.6	159.3	158.5
67.5°	126.5	131.6	139.4	139.7	139.0
70°	109.4	112.9	120.4	120.6	118.9
72.5°	91.0	94.7	100.8	100.0	99.6
75°	73.1	76.0	80.7	81.3	79.9
77.5°	56.6	58.8	62.3	61.9	60.4
80°	39.8	41.6	44.1	43.6	42.0
82.5°	25.4	26.5	28.1	27.4	26.8
85°	13.9	14.0	14.1	14.0	13.6
87.5°	5.1	5.2	5.2	5.1	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)