

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: P489230

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-1LO-30-120-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: P489230  
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-30-120-EDD-90  
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

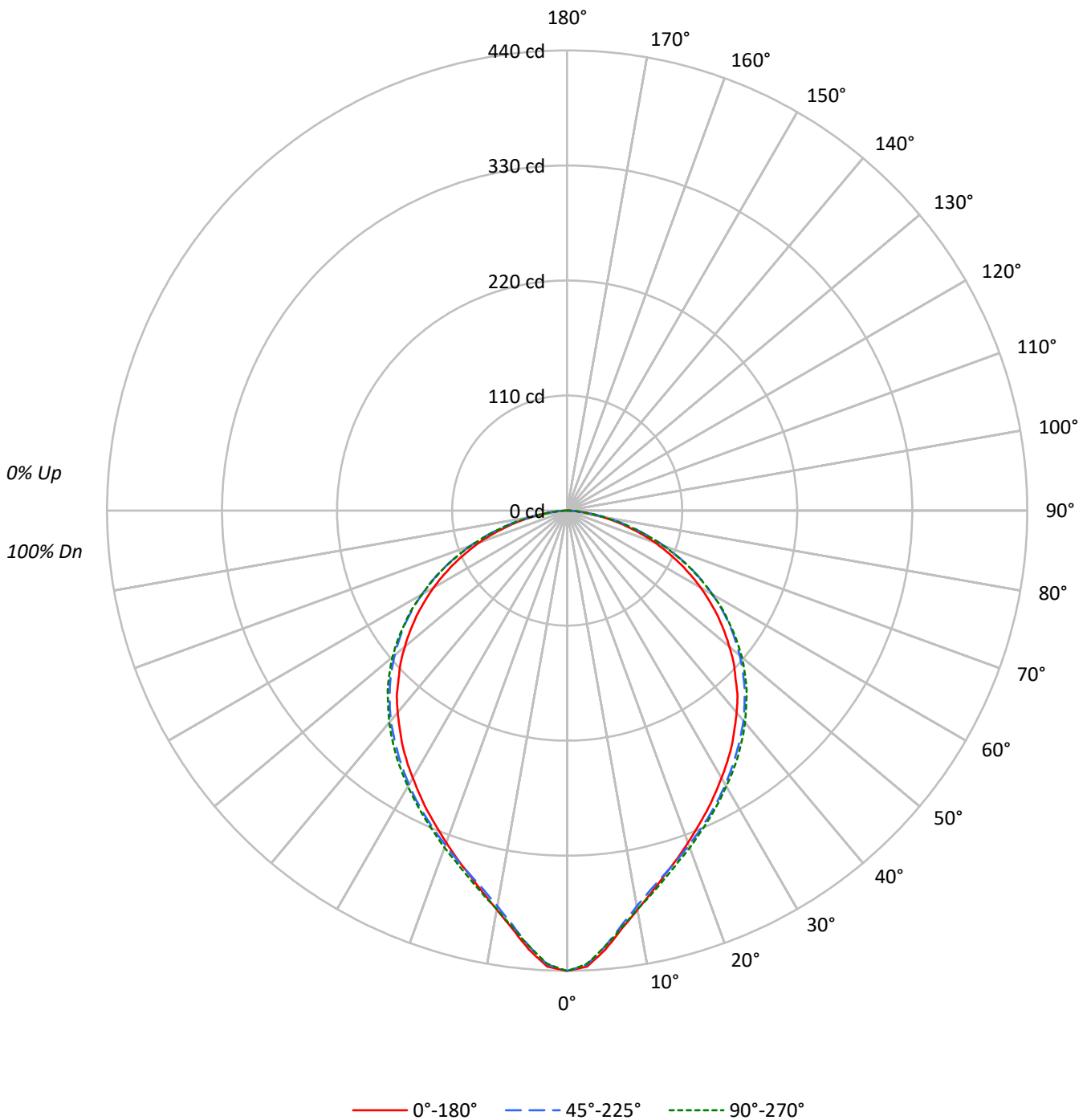
Lumens per Lamp: N/A  
Luminaire Lumens: 1022.5 lumens  
Efficiency: N/A  
Efficacy: 87.4 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.23  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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°	1185	1185	1185
5°	1137	1129	1129
10°	1059	1049	1057
15°	1005	1003	1012
20°	968	975	982
25°	940	955	961
30°	917	940	946
35°	901	928	937
40°	886	921	929
45°	867	913	923
50°	848	901	913
55°	825	888	892
60°	795	864	862
65°	754	830	825
70°	703	774	765
75°	621	686	679
80°	505	559	532
85°	349	355	343



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.9	3.8
10°-20°	101.9	10.0
20°-30°	148.2	14.5
30°-40°	176.3	17.2
40°-50°	183.1	17.9
50°-60°	165.8	16.2
60°-70°	125.2	12.2
70°-80°	68.2	6.7
80°-90°	15.0	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°	288.9	28.3
0°-40°	465.3	45.5
0°-60°	814.2	79.6
0°-90°	1022.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1022.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	440	440	440	440	440	
5°	421	420	418	418	418	39
15°	361	360	360	362	363	102
25°	317	319	322	324	324	146
35°	274	278	282	287	285	172
45°	228	232	240	242	243	176
55°	176	180	189	191	190	157
65°	118	122	130	130	130	117
75°	60	62	66	66	65	64
85°	11	11	12	11	11	14
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	440.2	440.2	440.2	440.2	440.2
2.5°	436.4	435.9	434.5	433.9	433.8
5°	421.1	420.1	418.1	417.9	418.1
7.5°	402.8	401.7	399.7	400.5	401.5
10°	387.4	384.7	383.9	385.0	386.9
12.5°	373.6	371.5	370.8	373.6	375.0
15°	360.6	359.7	359.9	362.3	363.4
17.5°	349.2	348.7	350.1	352.0	352.5
20°	337.9	339.0	340.3	342.3	343.0
22.5°	326.8	328.9	331.1	333.7	332.8
25°	316.6	319.2	321.7	324.4	323.6
27.5°	305.7	308.8	312.3	315.1	314.0
30°	295.2	299.1	302.5	306.0	304.4
32.5°	284.9	288.5	292.6	296.9	295.0
35°	274.4	277.7	282.5	286.8	285.3
37.5°	262.9	267.0	272.3	276.1	275.1
40°	252.1	255.9	262.3	264.8	264.5
42.5°	241.2	244.3	251.1	253.9	253.4
45°	227.9	232.0	239.8	242.4	242.6
47.5°	216.1	219.6	227.9	230.0	230.4
50°	202.6	206.9	215.3	217.8	218.1
52.5°	189.3	193.9	202.5	204.3	204.6
55°	175.8	179.9	189.3	190.6	190.1
57.5°	161.6	166.6	175.2	175.9	176.4
60°	147.7	152.1	160.5	161.4	160.2
62.5°	132.7	137.2	145.7	146.0	145.0
65°	118.4	121.8	130.4	130.2	129.6
67.5°	103.4	107.6	114.0	114.2	113.6
70°	89.4	92.3	98.4	98.6	97.2
72.5°	74.4	77.4	82.4	81.7	81.4
75°	59.7	62.1	66.0	66.4	65.3
77.5°	46.3	48.1	50.9	50.6	49.4
80°	32.6	34.0	36.1	35.6	34.3
82.5°	20.8	21.7	23.0	22.4	21.9
85°	11.3	11.4	11.5	11.4	11.1
87.5°	4.2	4.3	4.3	4.2	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)