

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: P488515

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-2LO-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: P488515  
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-12-2-INS-P12125-LD4-2LO-40-120-EDD  
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

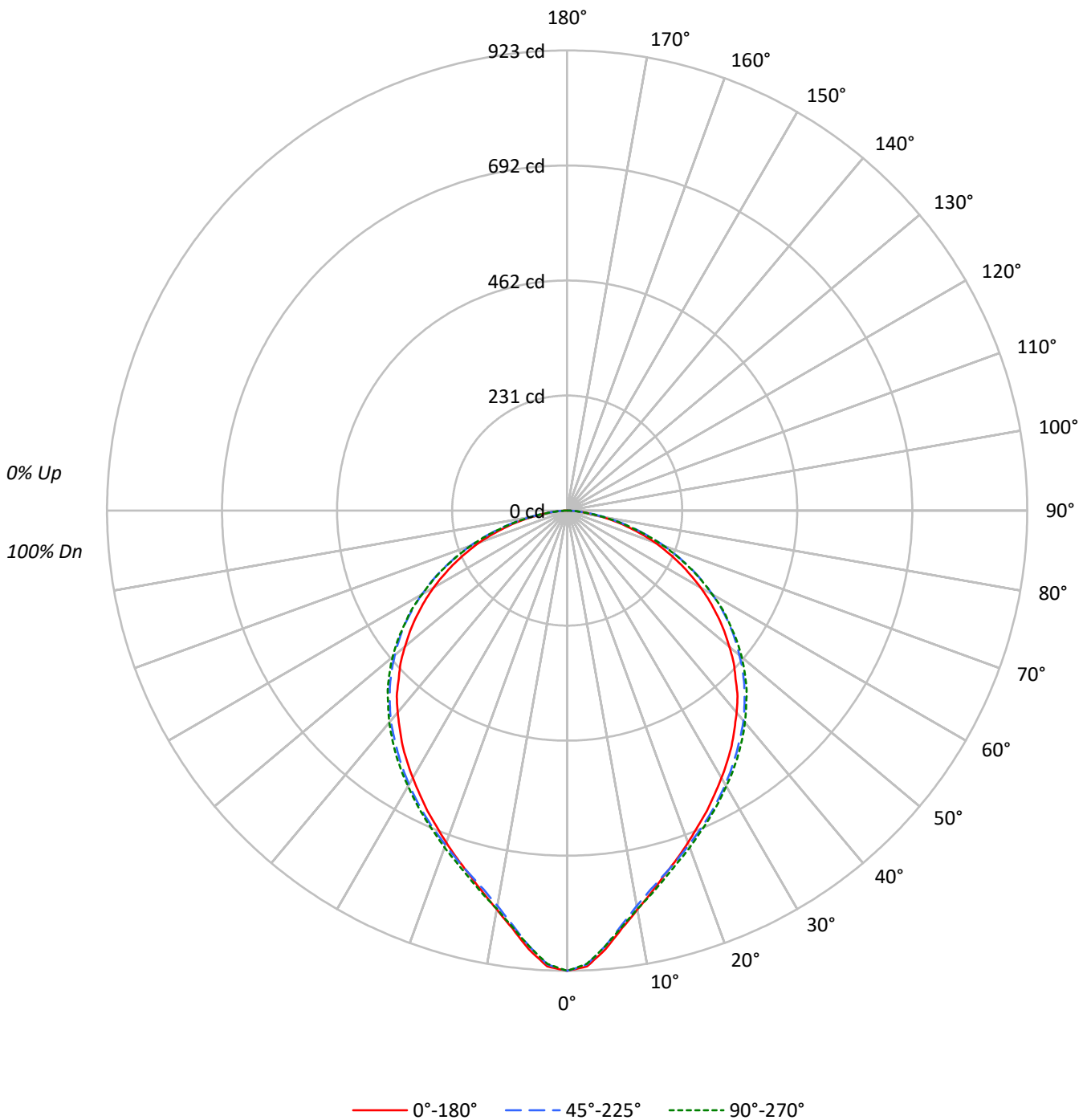
Lumens per Lamp: N/A  
Luminaire Lumens: 2144.3 lumens  
Efficiency: N/A  
Efficacy: 91.6 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 23.4  
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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59					59			
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30					30			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27					27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

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

	0°	45°	90°
0°	4969	4969	4969
5°	4770	4737	4737
10°	4440	4399	4434
15°	4213	4206	4246
20°	4058	4088	4119
25°	3942	4007	4030
30°	3847	3943	3967
35°	3781	3892	3932
40°	3714	3866	3898
45°	3638	3828	3873
50°	3558	3779	3830
55°	3459	3725	3740
60°	3335	3622	3616
65°	3161	3484	3460
70°	2950	3249	3209
75°	2606	2878	2849
80°	2117	2346	2232
85°	1470	1494	1439



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.6	3.8
10°-20°	213.7	10.0
20°-30°	310.7	14.5
30°-40°	369.7	17.2
40°-50°	383.9	17.9
50°-60°	347.8	16.2
60°-70°	262.5	12.2
70°-80°	143.0	6.7
80°-90°	31.4	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°	606.0	28.3
0°-40°	975.7	45.5
0°-60°	1707.4	79.6
0°-90°	2144.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2144.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	923	923	923	923	923	
5°	883	881	877	876	877	82
15°	756	754	755	760	762	213
25°	664	669	675	680	679	306
35°	576	582	592	601	598	360
45°	478	486	503	508	509	369
55°	369	377	397	400	399	329
65°	248	255	274	273	272	245
75°	125	130	138	139	137	133
85°	24	24	24	24	23	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	923.2	923.2	923.2	923.2	923.2
2.5°	915.1	914.2	911.2	910.0	909.8
5°	883.0	880.9	876.8	876.3	876.8
7.5°	844.7	842.4	838.3	839.9	842.0
10°	812.4	806.7	805.0	807.4	811.3
12.5°	783.6	779.0	777.6	783.6	786.4
15°	756.1	754.3	754.8	759.8	762.1
17.5°	732.4	731.2	734.2	738.2	739.3
20°	708.6	710.9	713.7	717.9	719.2
22.5°	685.3	689.7	694.3	699.9	698.0
25°	663.9	669.4	674.7	680.3	678.6
27.5°	641.0	647.5	654.9	660.9	658.6
30°	619.1	627.2	634.4	641.7	638.3
32.5°	597.4	605.1	613.6	622.6	618.7
35°	575.5	582.4	592.4	601.4	598.4
37.5°	551.3	559.8	571.1	579.0	576.9
40°	528.7	536.5	550.2	555.2	554.8
42.5°	505.9	512.3	526.6	532.4	531.5
45°	478.0	486.5	502.9	508.4	508.9
47.5°	453.3	460.4	478.0	482.3	483.3
50°	424.9	433.9	451.4	456.7	457.4
52.5°	397.0	406.7	424.7	428.4	429.1
55°	368.6	377.4	397.0	399.8	398.6
57.5°	338.9	349.5	367.5	368.8	370.0
60°	309.8	319.0	336.5	338.4	335.9
62.5°	278.2	287.6	305.6	306.1	304.0
65°	248.2	255.4	273.6	273.1	271.7
67.5°	216.8	225.6	239.0	239.4	238.3
70°	187.5	193.5	206.5	206.7	203.9
72.5°	155.9	162.4	172.8	171.4	170.7
75°	125.3	130.3	138.4	139.3	137.0
77.5°	97.1	100.8	106.8	106.1	103.6
80°	68.3	71.3	75.7	74.7	72.0
82.5°	43.6	45.5	48.2	47.1	45.9
85°	23.8	24.0	24.2	24.0	23.3
87.5°	8.8	9.0	9.0	8.8	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)