

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: P488527

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-2STD-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: P488527  
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-LD4-2STD-40-120-EDD  
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

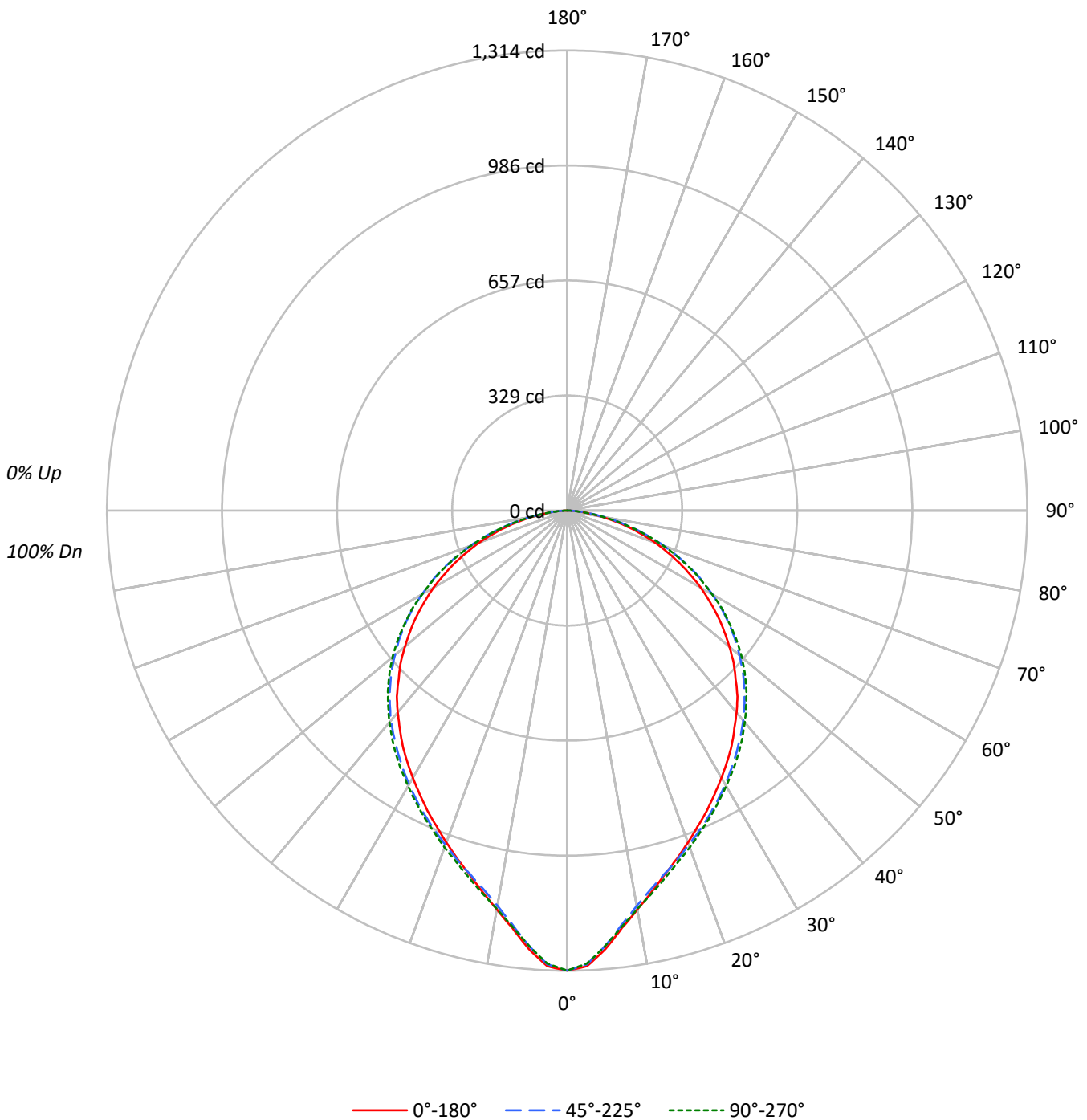
Lumens per Lamp: N/A  
Luminaire Lumens: 3051.5 lumens  
Efficiency: N/A  
Efficacy: 91.6 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	7070	7070	7070
5°	6789	6741	6741
10°	6318	6261	6309
15°	5995	5985	6043
20°	5775	5817	5862
25°	5611	5702	5735
30°	5475	5610	5645
35°	5381	5539	5594
40°	5286	5500	5547
45°	5177	5447	5511
50°	5063	5379	5451
55°	4922	5301	5322
60°	4745	5155	5145
65°	4498	4958	4925
70°	4200	4623	4567
75°	3706	4096	4055
80°	3013	3338	3174
85°	2087	2130	2044



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.1	3.8
10°-20°	304.1	10.0
20°-30°	442.2	14.5
30°-40°	526.2	17.2
40°-50°	546.3	17.9
50°-60°	495.0	16.2
60°-70°	373.5	12.2
70°-80°	203.5	6.7
80°-90°	44.7	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°	862.3	28.3
0°-40°	1388.5	45.5
0°-60°	2429.8	79.6
0°-90°	3051.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3051.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1314	1314	1314	1314	1314	
5°	1257	1254	1248	1247	1248	117
15°	1076	1073	1074	1081	1085	304
25°	945	953	960	968	966	435
35°	819	829	843	856	852	512
45°	680	692	716	724	724	526
55°	525	537	565	569	567	468
65°	353	363	389	389	387	349
75°	178	186	197	198	195	190
85°	34	34	34	34	33	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1313.7	1313.7	1313.7	1313.7	1313.7
2.5°	1302.2	1300.9	1296.6	1295.0	1294.7
5°	1256.6	1253.6	1247.7	1247.1	1247.7
7.5°	1202.1	1198.8	1192.9	1195.2	1198.2
10°	1156.1	1147.9	1145.6	1148.9	1154.5
12.5°	1115.1	1108.5	1106.6	1115.1	1119.1
15°	1076.0	1073.4	1074.1	1081.3	1084.6
17.5°	1042.2	1040.6	1044.9	1050.5	1052.1
20°	1008.4	1011.7	1015.7	1021.6	1023.5
22.5°	975.3	981.5	988.1	996.0	993.3
25°	944.8	952.6	960.2	968.1	965.8
27.5°	912.2	921.4	931.9	940.5	937.2
30°	881.0	892.5	902.7	913.2	908.3
32.5°	850.2	861.0	873.2	886.0	880.4
35°	819.0	828.9	843.0	855.8	851.5
37.5°	784.6	796.7	812.8	823.9	821.0
40°	752.4	763.5	782.9	790.1	789.5
42.5°	719.9	729.1	749.4	757.6	756.3
45°	680.2	692.3	715.6	723.5	724.1
47.5°	645.0	655.2	680.2	686.4	687.7
50°	604.7	617.5	642.4	650.0	651.0
52.5°	564.9	578.7	604.3	609.6	610.6
55°	524.6	537.0	564.9	568.9	567.2
57.5°	482.2	497.3	522.9	524.9	526.5
60°	440.8	454.0	478.9	481.6	478.0
62.5°	395.9	409.3	435.0	435.6	432.6
65°	353.2	363.4	389.3	388.7	386.7
67.5°	308.6	321.0	340.1	340.7	339.1
70°	266.9	275.4	293.8	294.1	290.2
72.5°	221.9	231.1	245.9	243.9	242.9
75°	178.2	185.5	197.0	198.3	195.0
77.5°	138.2	143.5	152.0	151.0	147.4
80°	97.2	101.4	107.7	106.4	102.4
82.5°	62.0	64.7	68.6	67.0	65.3
85°	33.8	34.1	34.5	34.1	33.1
87.5°	12.5	12.8	12.8	12.5	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)