

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: P489771

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-1LO-30-120-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: P489771  
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-24-4-INS-P12125-LD4-1LO-30-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

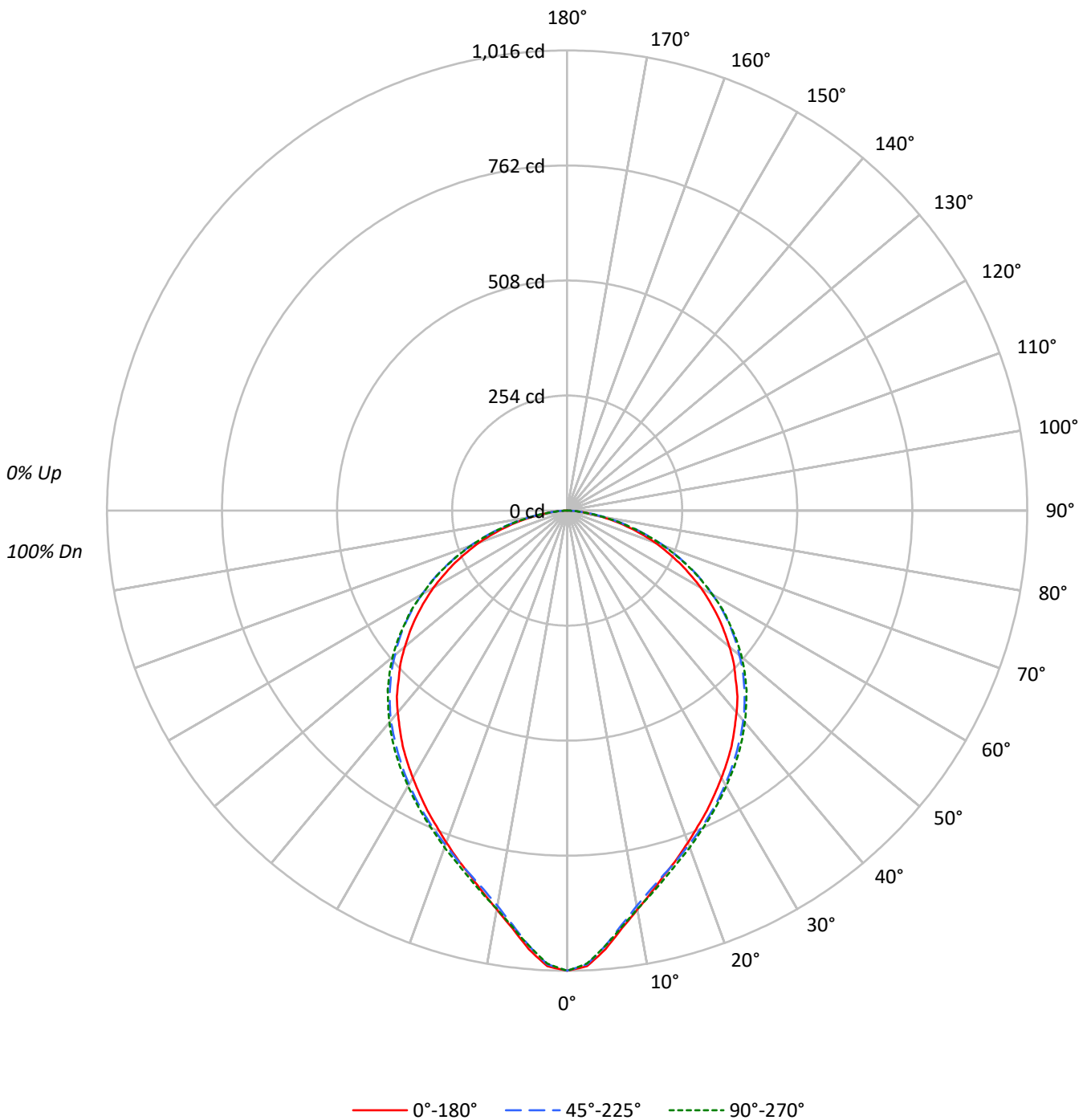
Lumens per Lamp: N/A  
Luminaire Lumens: 2359.8 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	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°	1367	1367	1367
5°	1313	1303	1303
10°	1222	1210	1220
15°	1159	1157	1168
20°	1117	1125	1133
25°	1085	1102	1109
30°	1058	1085	1091
35°	1040	1071	1082
40°	1022	1063	1072
45°	1001	1053	1066
50°	979	1040	1054
55°	952	1025	1029
60°	917	997	995
65°	869	959	952
70°	812	894	883
75°	716	792	784
80°	582	645	614
85°	404	411	395



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.8	3.8
10°-20°	235.1	10.0
20°-30°	341.9	14.5
30°-40°	406.9	17.2
40°-50°	422.5	17.9
50°-60°	382.8	16.2
60°-70°	288.8	12.2
70°-80°	157.4	6.7
80°-90°	34.6	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°	666.8	28.3
0°-40°	1073.7	45.5
0°-60°	1879.0	79.6
0°-90°	2359.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2359.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1016	1016	1016	1016	1016	
5°	972	970	965	964	965	90
15°	832	830	831	836	839	235
25°	731	737	742	749	747	337
35°	633	641	652	662	658	396
45°	526	535	553	560	560	407
55°	406	415	437	440	439	362
65°	273	281	301	301	299	270
75°	138	143	152	153	151	147
85°	26	26	27	26	26	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1015.9	1015.9	1015.9	1015.9	1015.9
2.5°	1007.0	1006.0	1002.7	1001.5	1001.2
5°	971.8	969.5	964.9	964.4	964.9
7.5°	929.6	927.1	922.5	924.3	926.6
10°	894.1	887.7	885.9	888.5	892.8
12.5°	862.3	857.3	855.7	862.3	865.4
15°	832.1	830.1	830.6	836.2	838.7
17.5°	806.0	804.7	808.0	812.3	813.6
20°	779.8	782.4	785.4	790.0	791.5
22.5°	754.2	759.0	764.1	770.2	768.2
25°	730.6	736.7	742.5	748.6	746.8
27.5°	705.5	712.6	720.7	727.3	724.8
30°	681.3	690.2	698.1	706.2	702.4
32.5°	657.5	665.9	675.3	685.2	680.8
35°	633.4	641.0	651.9	661.8	658.5
37.5°	606.7	616.1	628.5	637.2	634.9
40°	581.8	590.5	605.4	611.0	610.5
42.5°	556.7	563.8	579.6	585.9	584.9
45°	526.0	535.4	553.4	559.5	560.0
47.5°	498.8	506.7	526.0	530.8	531.8
50°	467.6	477.5	496.8	502.6	503.4
52.5°	436.9	447.5	467.3	471.4	472.2
55°	405.7	415.3	436.9	439.9	438.7
57.5°	372.9	384.6	404.4	405.9	407.2
60°	340.9	351.1	370.4	372.4	369.6
62.5°	306.2	316.6	336.4	336.9	334.6
65°	273.1	281.0	301.1	300.6	299.0
67.5°	238.6	248.3	263.0	263.5	262.2
70°	206.4	213.0	227.2	227.5	224.4
72.5°	171.6	178.7	190.1	188.6	187.9
75°	137.8	143.4	152.3	153.3	150.8
77.5°	106.9	110.9	117.5	116.8	114.0
80°	75.1	78.4	83.3	82.3	79.2
82.5°	48.0	50.0	53.1	51.8	50.5
85°	26.2	26.4	26.6	26.4	25.6
87.5°	9.6	9.9	9.9	9.6	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)