

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: P489775

Luminaire Tested: **CLM-24-4-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: P489775  
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-40-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

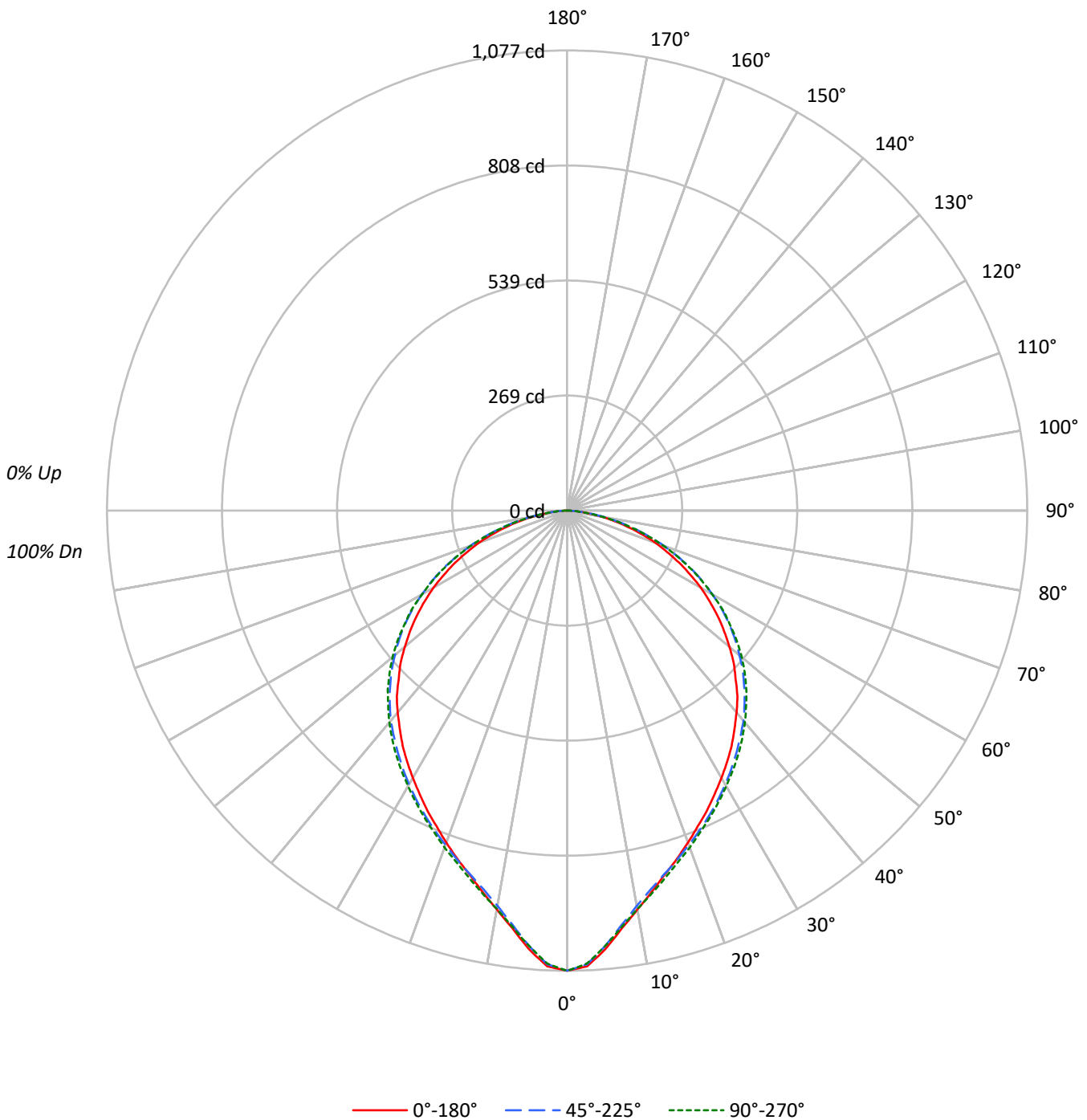
Lumens per Lamp: N/A  
Luminaire Lumens: 2501.5 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	1449	1449	1449
5°	1391	1381	1381
10°	1295	1283	1293
15°	1229	1226	1238
20°	1184	1192	1201
25°	1150	1169	1175
30°	1122	1150	1157
35°	1103	1135	1146
40°	1083	1127	1137
45°	1061	1116	1130
50°	1038	1102	1117
55°	1009	1086	1091
60°	973	1056	1054
65°	922	1016	1009
70°	861	947	936
75°	760	840	831
80°	617	684	650
85°	428	435	420



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.2	3.8
10°-20°	249.3	10.0
20°-30°	362.5	14.5
30°-40°	431.3	17.2
40°-50°	447.9	17.9
50°-60°	405.7	16.2
60°-70°	306.2	12.2
70°-80°	166.8	6.7
80°-90°	36.6	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°	706.9	28.3
0°-40°	1138.2	45.5
0°-60°	1991.8	79.6
0°-90°	2501.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2501.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1077	1077	1077	1077	1077	
5°	1030	1028	1023	1022	1023	96
15°	882	880	880	886	889	249
25°	774	781	787	794	792	357
35°	671	680	691	702	698	420
45°	558	568	587	593	594	431
55°	430	440	463	466	465	384
65°	290	298	319	319	317	286
75°	146	152	162	162	160	156
85°	28	28	28	28	27	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1076.9	1076.9	1076.9	1076.9	1076.9
2.5°	1067.5	1066.4	1062.9	1061.6	1061.3
5°	1030.1	1027.7	1022.8	1022.3	1022.8
7.5°	985.4	982.7	977.9	979.8	982.2
10°	947.8	941.0	939.1	941.8	946.4
12.5°	914.1	908.7	907.1	914.1	917.4
15°	882.1	879.9	880.5	886.4	889.1
17.5°	854.4	853.0	856.5	861.1	862.5
20°	826.7	829.4	832.6	837.4	839.0
22.5°	799.5	804.6	810.0	816.4	814.3
25°	774.5	780.9	787.1	793.6	791.7
27.5°	747.8	755.3	764.0	771.0	768.3
30°	722.2	731.7	740.0	748.6	744.6
32.5°	697.0	705.8	715.8	726.3	721.7
35°	671.4	679.5	691.0	701.5	698.0
37.5°	643.2	653.1	666.3	675.4	673.0
40°	616.8	625.9	641.8	647.7	647.2
42.5°	590.1	597.7	614.4	621.1	620.0
45°	557.6	567.5	586.6	593.1	593.6
47.5°	528.8	537.1	557.6	562.7	563.8
50°	495.7	506.2	526.6	532.8	533.6
52.5°	463.1	474.4	495.4	499.7	500.5
55°	430.0	440.2	463.1	466.4	465.0
57.5°	395.3	407.7	428.7	430.3	431.6
60°	361.4	372.2	392.6	394.8	391.8
62.5°	324.5	335.6	356.6	357.1	354.7
65°	289.5	297.9	319.1	318.6	317.0
67.5°	252.9	263.2	278.8	279.3	278.0
70°	218.8	225.8	240.8	241.1	237.9
72.5°	181.9	189.4	201.5	199.9	199.1
75°	146.1	152.0	161.5	162.5	159.8
77.5°	113.3	117.6	124.6	123.8	120.8
80°	79.6	83.1	88.3	87.2	83.9
82.5°	50.8	53.0	56.2	54.9	53.5
85°	27.7	28.0	28.2	28.0	27.2
87.5°	10.2	10.5	10.5	10.2	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)