

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: P489774

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-1LO-40-120-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: P489774  
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-90  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

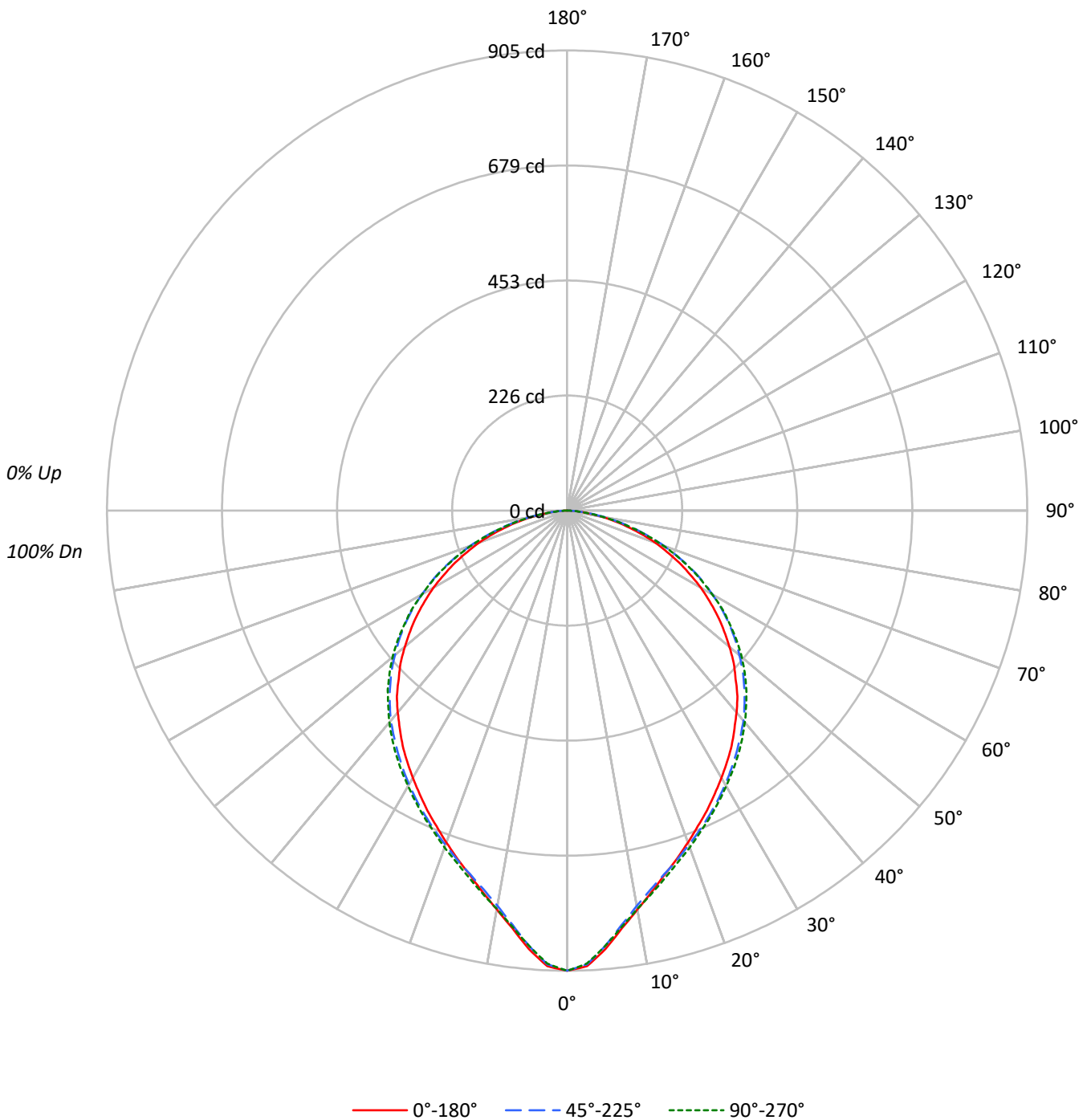
Lumens per Lamp: N/A  
Luminaire Lumens: 2101.8 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	1218	1218	1218
5°	1169	1161	1161
10°	1088	1078	1086
15°	1032	1031	1041
20°	995	1002	1009
25°	966	982	988
30°	943	966	972
35°	927	954	963
40°	910	947	955
45°	891	938	949
50°	872	926	939
55°	848	913	916
60°	817	888	886
65°	775	854	848
70°	723	796	786
75°	638	705	698
80°	518	575	546
85°	360	366	352



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.0	3.8
10°-20°	209.4	10.0
20°-30°	304.6	14.5
30°-40°	362.4	17.2
40°-50°	376.3	17.9
50°-60°	340.9	16.2
60°-70°	257.2	12.2
70°-80°	140.2	6.7
80°-90°	30.8	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°	593.9	28.3
0°-40°	956.4	45.5
0°-60°	1673.6	79.6
0°-90°	2101.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2101.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	905	905	905	905	905	
5°	866	864	859	859	859	80
15°	741	739	740	745	747	209
25°	651	656	661	667	665	300
35°	564	571	581	590	586	353
45°	468	477	493	498	499	362
55°	361	370	389	392	391	323
65°	243	250	268	268	266	240
75°	123	128	136	137	134	131
85°	23	24	24	24	23	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	904.9	904.9	904.9	904.9	904.9
2.5°	896.9	896.0	893.1	892.0	891.7
5°	865.5	863.5	859.4	859.0	859.4
7.5°	828.0	825.7	821.7	823.2	825.3
10°	796.3	790.7	789.1	791.3	795.2
12.5°	768.1	763.5	762.2	768.1	770.8
15°	741.1	739.3	739.8	744.8	747.0
17.5°	717.9	716.7	719.7	723.5	724.7
20°	694.6	696.8	699.6	703.6	705.0
22.5°	671.7	676.0	680.6	686.0	684.2
25°	650.7	656.1	661.4	666.8	665.2
27.5°	628.3	634.7	641.9	647.8	645.5
30°	606.8	614.8	621.8	629.0	625.6
32.5°	585.6	593.1	601.4	610.2	606.4
35°	564.1	570.9	580.6	589.5	586.5
37.5°	540.4	548.7	559.8	567.5	565.5
40°	518.2	525.9	539.3	544.2	543.8
42.5°	495.8	502.2	516.2	521.8	520.9
45°	468.5	476.8	492.9	498.3	498.8
47.5°	444.3	451.3	468.5	472.8	473.7
50°	416.5	425.3	442.5	447.7	448.4
52.5°	389.1	398.6	416.2	419.9	420.6
55°	361.3	369.9	389.1	391.8	390.7
57.5°	332.1	342.5	360.2	361.5	362.7
60°	303.6	312.7	329.9	331.7	329.2
62.5°	272.7	281.9	299.6	300.0	298.0
65°	243.3	250.3	268.1	267.7	266.3
67.5°	212.5	221.1	234.2	234.7	233.6
70°	183.8	189.7	202.4	202.6	199.9
72.5°	152.9	159.2	169.3	168.0	167.3
75°	122.8	127.7	135.7	136.6	134.3
77.5°	95.2	98.8	104.7	104.0	101.5
80°	66.9	69.9	74.2	73.3	70.5
82.5°	42.7	44.6	47.3	46.1	45.0
85°	23.3	23.5	23.7	23.5	22.8
87.5°	8.6	8.8	8.8	8.6	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)