

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: P488554

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-1STD-20-120-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: P488554  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-115-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/11/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: CLM-12-4-INS-A12125-LD4-1STD-20-120-EDD-90  
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

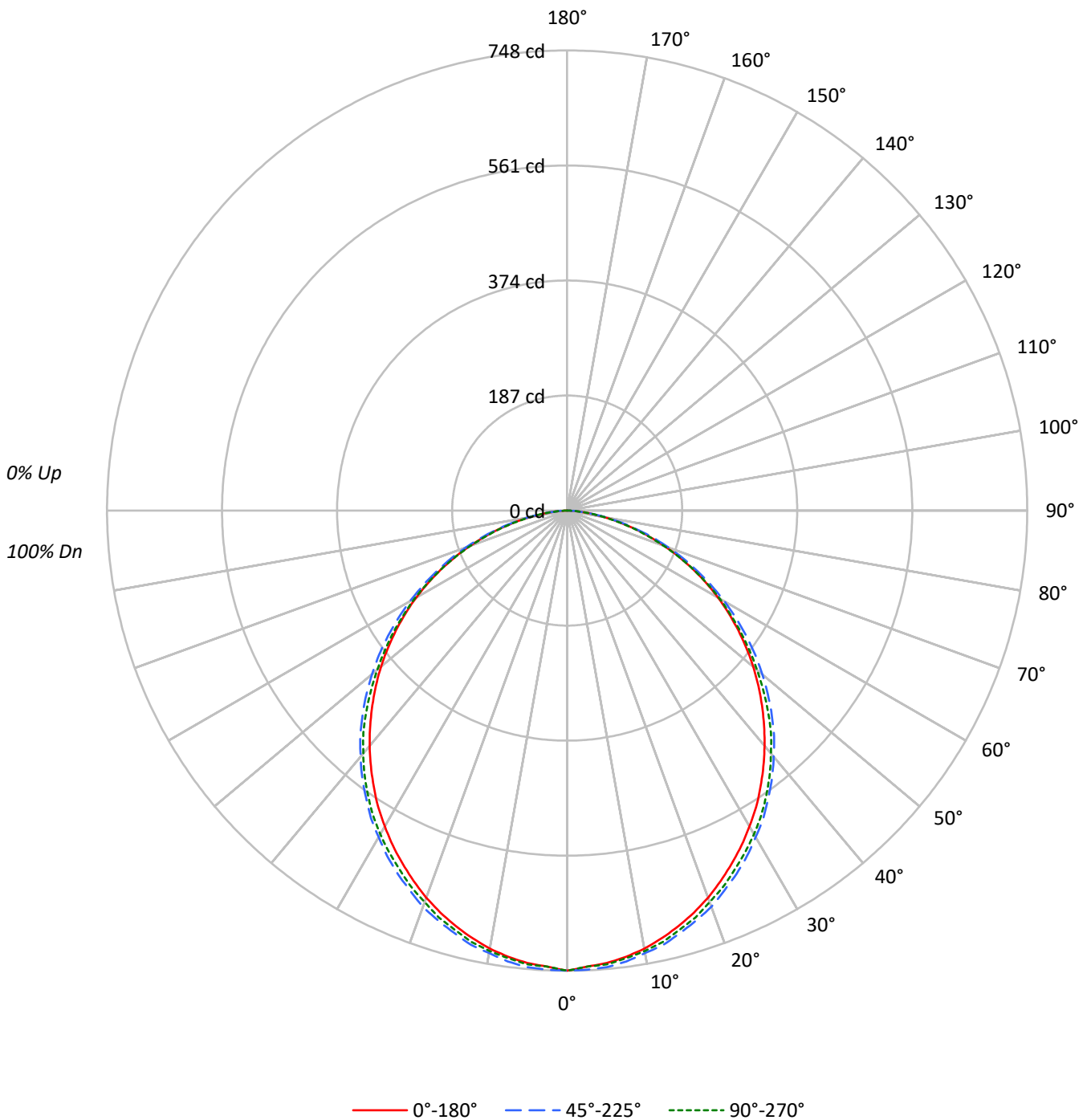
Lumens per Lamp: N/A  
Luminaire Lumens: 1966.1 lumens  
Efficiency: N/A  
Efficacy: 59.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	2012	2012	2012
5°	1994	2012	2000
10°	1976	1996	1986
15°	1948	1980	1966
20°	1918	1963	1939
25°	1880	1935	1912
30°	1842	1905	1887
35°	1801	1872	1855
40°	1754	1835	1811
45°	1705	1791	1757
50°	1654	1733	1688
55°	1593	1668	1617
60°	1526	1589	1540
65°	1438	1493	1439
70°	1323	1376	1308
75°	1164	1218	1147
80°	947	987	936
85°	658	704	685



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.4	3.6
10°-20°	199.6	10.2
20°-30°	297.7	15.1
30°-40°	352.7	17.9
40°-50°	356.9	18.2
50°-60°	311.7	15.9
60°-70°	227.8	11.6
70°-80°	121.2	6.2
80°-90°	28.0	1.4
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°	567.7	28.9
0°-40°	920.4	46.8
0°-60°	1589.1	80.8
0°-90°	1966.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1966.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	748	748	748	748	748	
5°	738	740	745	747	740	70
15°	699	704	711	715	706	197
25°	633	641	652	654	644	292
35°	548	557	570	574	565	343
45°	448	456	470	471	462	346
55°	340	346	356	350	345	304
65°	226	230	234	230	226	223
75°	112	115	117	113	110	119
85°	21	22	23	23	22	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	747.8	747.8	747.8	747.8	747.8
2.5°	742.0	744.4	746.9	748.0	741.9
5°	738.1	739.5	745.0	746.7	740.4
7.5°	731.7	733.8	739.2	740.0	733.9
10°	723.0	726.7	730.3	734.2	726.8
12.5°	711.8	716.9	723.0	723.7	718.1
15°	699.3	704.0	710.6	714.9	705.6
17.5°	685.3	689.8	698.4	699.1	693.5
20°	669.6	675.2	685.5	687.3	677.2
22.5°	651.8	659.4	668.0	669.7	662.3
25°	633.2	641.0	651.6	654.0	644.1
27.5°	613.7	621.2	633.1	634.9	626.5
30°	592.9	599.9	613.0	615.8	607.4
32.5°	571.7	578.7	593.2	595.6	587.3
35°	548.1	556.7	569.9	573.8	564.6
37.5°	524.1	532.5	547.4	551.0	541.0
40°	499.3	507.5	522.3	525.2	515.6
42.5°	473.9	482.1	497.9	498.3	490.4
45°	447.9	455.9	470.5	470.9	461.7
47.5°	421.6	429.6	442.7	441.2	432.5
50°	395.0	402.6	414.0	411.1	403.2
52.5°	367.4	374.8	385.6	380.8	373.4
55°	339.6	346.5	355.5	350.4	344.6
57.5°	311.7	318.6	325.5	320.3	315.3
60°	283.5	289.5	295.2	289.9	286.1
62.5°	254.8	260.0	264.9	259.8	256.3
65°	225.8	230.4	234.4	229.8	226.0
67.5°	197.0	200.9	204.6	199.8	195.8
70°	168.1	171.5	174.9	169.9	166.3
72.5°	139.7	142.7	145.7	140.9	137.7
75°	112.0	114.6	117.1	112.8	110.3
77.5°	85.6	87.8	89.5	86.8	84.4
80°	61.1	62.7	63.7	62.6	60.4
82.5°	39.3	40.4	41.0	40.9	39.4
85°	21.3	21.7	22.8	23.0	22.2
87.5°	8.3	8.8	9.0	9.7	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)