

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: P488887

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-1STD-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: P488887  
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-24-2-INS-A12125-LD4-1STD-40-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

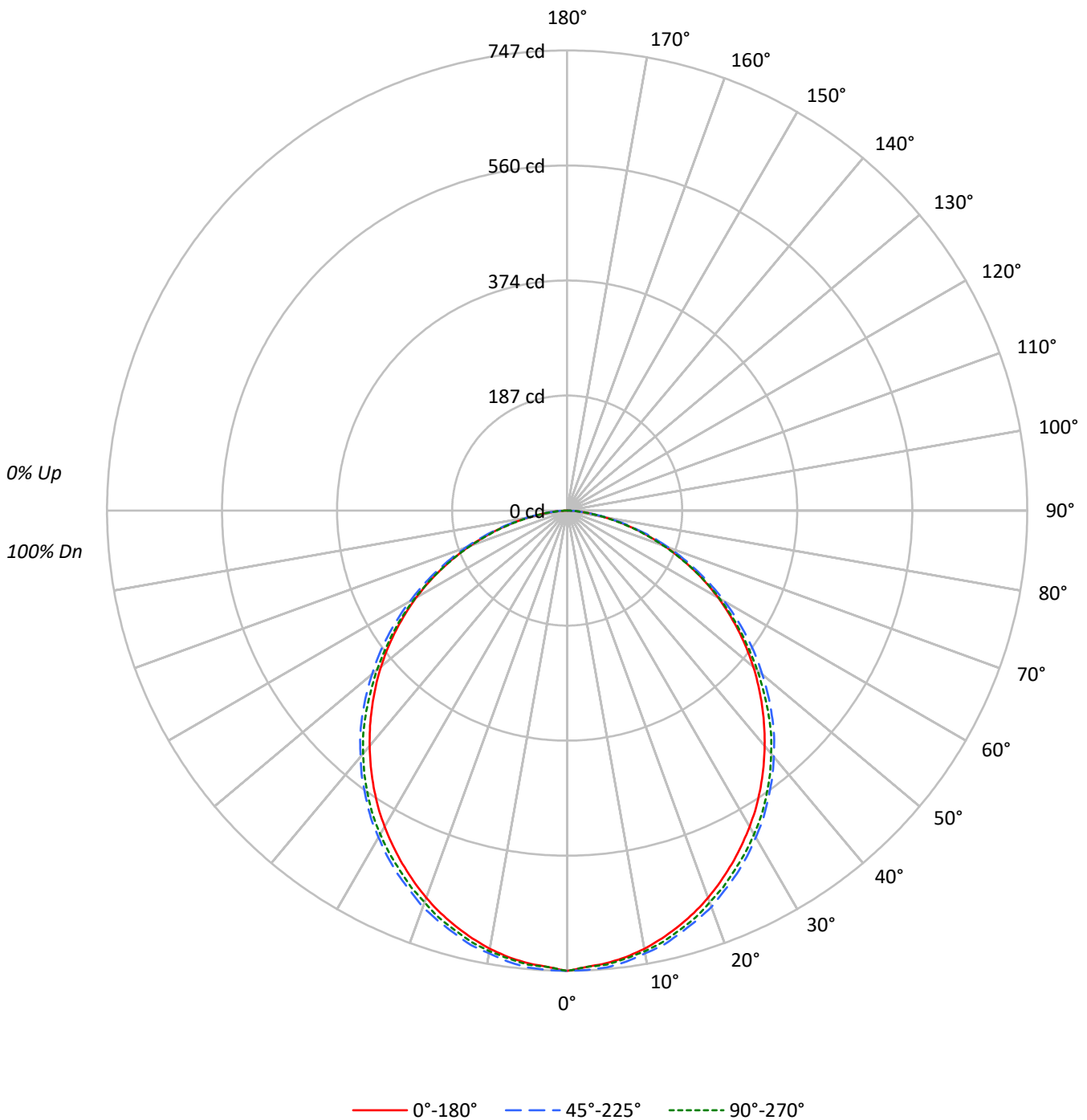
Lumens per Lamp: N/A  
Luminaire Lumens: 1964.4 lumens  
Efficiency: N/A  
Efficacy: 118.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 16.6  
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°	2011	2011	2011
5°	1992	2011	1998
10°	1974	1994	1984
15°	1947	1978	1964
20°	1916	1961	1938
25°	1879	1933	1911
30°	1840	1903	1885
35°	1799	1871	1853
40°	1753	1833	1810
45°	1703	1789	1756
50°	1652	1732	1687
55°	1592	1666	1615
60°	1524	1588	1539
65°	1436	1491	1438
70°	1322	1375	1307
75°	1163	1216	1146
80°	945	987	934
85°	658	701	685



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.4	3.6
10°-20°	199.4	10.2
20°-30°	297.4	15.1
30°-40°	352.4	17.9
40°-50°	356.6	18.2
50°-60°	311.5	15.9
60°-70°	227.6	11.6
70°-80°	121.1	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°	567.2	28.9
0°-40°	919.7	46.8
0°-60°	1587.7	80.8
0°-90°	1964.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1964.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	747	747	747	747	747	
5°	738	739	744	746	740	70
15°	699	703	710	714	705	197
25°	633	640	651	654	644	291
35°	548	556	569	573	564	343
45°	448	456	470	470	461	345
55°	339	346	355	350	344	303
65°	226	230	234	230	226	223
75°	112	114	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°	747.2	747.2	747.2	747.2	747.2
2.5°	741.3	743.8	746.3	747.3	741.3
5°	737.5	738.9	744.4	746.1	739.8
7.5°	731.1	733.2	738.5	739.3	733.3
10°	722.4	726.1	729.7	733.6	726.2
12.5°	711.2	716.3	722.4	723.1	717.4
15°	698.7	703.4	710.0	714.3	705.0
17.5°	684.7	689.2	697.8	698.5	692.9
20°	669.0	674.6	684.9	686.7	676.7
22.5°	651.3	658.8	667.4	669.1	661.7
25°	632.7	640.5	651.0	653.5	643.6
27.5°	613.2	620.7	632.6	634.3	626.0
30°	592.3	599.4	612.4	615.3	606.8
32.5°	571.2	578.2	592.7	595.1	586.8
35°	547.7	556.2	569.4	573.4	564.1
37.5°	523.7	532.0	547.0	550.5	540.6
40°	498.9	507.1	521.8	524.8	515.2
42.5°	473.5	481.7	497.5	497.9	490.0
45°	447.5	455.5	470.1	470.5	461.3
47.5°	421.2	429.3	442.3	440.9	432.1
50°	394.6	402.2	413.7	410.7	402.9
52.5°	367.1	374.5	385.3	380.4	373.0
55°	339.3	346.2	355.2	350.1	344.3
57.5°	311.4	318.3	325.3	320.0	315.1
60°	283.2	289.3	295.0	289.7	285.9
62.5°	254.6	259.8	264.7	259.6	256.0
65°	225.6	230.2	234.2	229.6	225.8
67.5°	196.8	200.7	204.4	199.6	195.6
70°	168.0	171.3	174.8	169.8	166.1
72.5°	139.6	142.5	145.6	140.7	137.6
75°	111.9	114.5	117.0	112.7	110.2
77.5°	85.6	87.7	89.4	86.7	84.3
80°	61.0	62.7	63.7	62.6	60.3
82.5°	39.2	40.4	40.9	40.9	39.4
85°	21.3	21.7	22.7	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)