

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: P489381

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-5LO-50-120-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: P489381  
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-24-2-INS-P12125-LD4-5LO-50-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

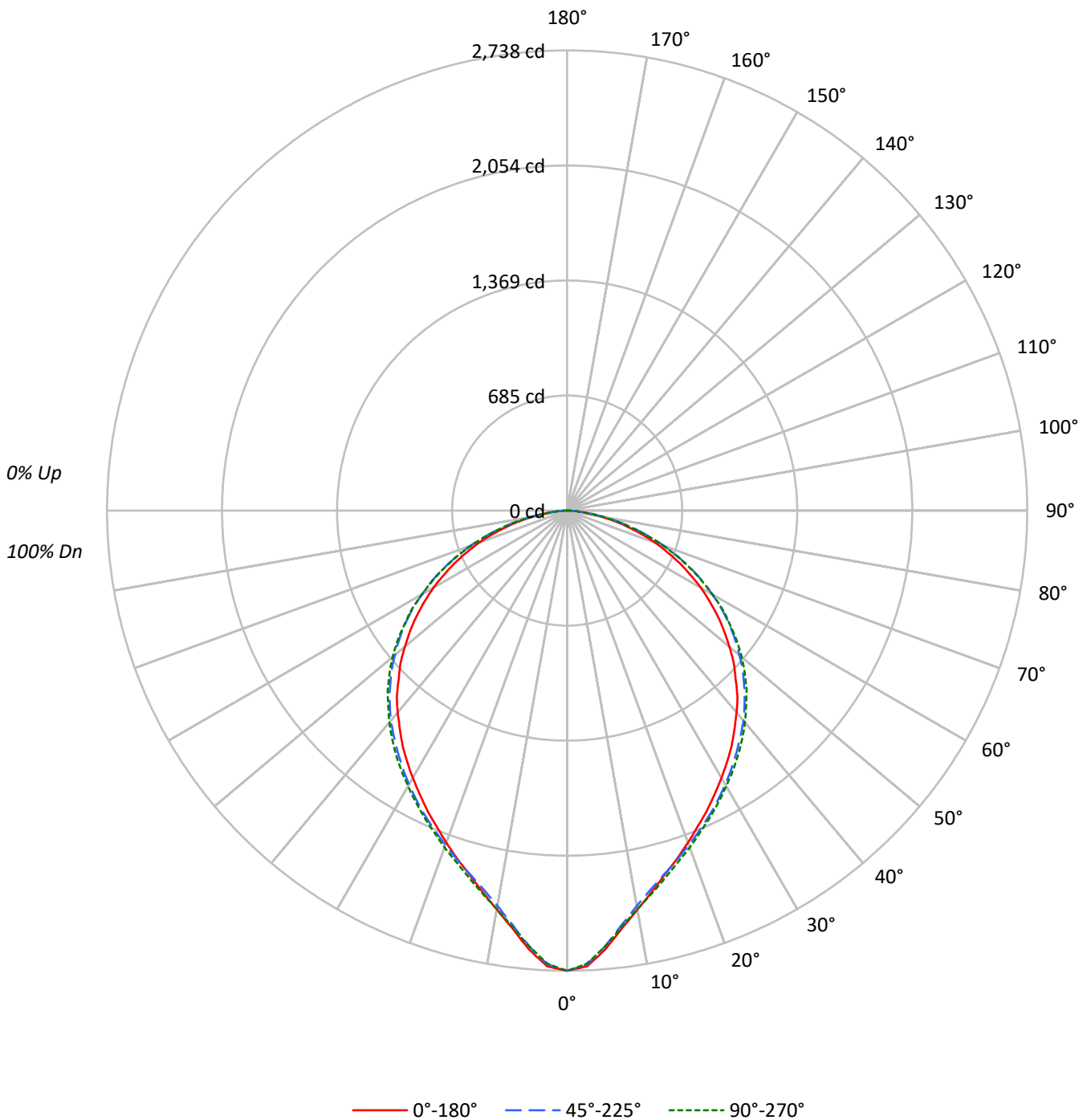
Lumens per Lamp: N/A  
Luminaire Lumens: 6359.6 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 58.5  
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°	7368	7368	7368
5°	7074	7024	7024
10°	6584	6524	6575
15°	6248	6236	6297
20°	6019	6062	6109
25°	5846	5942	5976
30°	5706	5846	5882
35°	5607	5772	5830
40°	5508	5732	5780
45°	5394	5676	5743
50°	5276	5605	5680
55°	5129	5524	5546
60°	4945	5372	5361
65°	4687	5167	5131
70°	4376	4818	4759
75°	3863	4268	4225
80°	3138	3477	3307
85°	2177	2217	2133



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.9	3.8
10°-20°	633.7	10.0
20°-30°	921.5	14.5
30°-40°	1096.6	17.2
40°-50°	1138.6	17.9
50°-60°	1031.5	16.2
60°-70°	778.4	12.2
70°-80°	424.1	6.7
80°-90°	93.2	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°	1797.1	28.3
0°-40°	2893.7	45.5
0°-60°	5063.9	79.6
0°-90°	6359.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6359.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2738	2738	2738	2738	2738	
5°	2619	2613	2600	2599	2600	243
15°	2243	2237	2238	2254	2260	633
25°	1969	1985	2001	2018	2013	907
35°	1707	1727	1757	1784	1775	1067
45°	1418	1443	1491	1508	1509	1096
55°	1093	1119	1177	1186	1182	976
65°	736	757	811	810	806	728
75°	372	386	410	413	406	396
85°	70	71	72	71	69	89
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2737.9	2737.9	2737.9	2737.9	2737.9
2.5°	2713.9	2711.2	2702.3	2698.9	2698.2
5°	2618.9	2612.7	2600.4	2599.0	2600.4
7.5°	2505.3	2498.4	2486.2	2490.9	2497.1
10°	2409.5	2392.4	2387.6	2394.5	2406.1
12.5°	2324.0	2310.3	2306.2	2324.0	2332.2
15°	2242.6	2237.1	2238.5	2253.6	2260.4
17.5°	2172.1	2168.7	2177.6	2189.2	2192.7
20°	2101.7	2108.5	2116.7	2129.0	2133.1
22.5°	2032.6	2045.5	2059.3	2075.7	2070.2
25°	1968.9	1985.3	2001.1	2017.5	2012.7
27.5°	1901.2	1920.3	1942.3	1960.1	1953.2
30°	1836.2	1860.1	1881.4	1903.2	1893.0
32.5°	1771.9	1794.5	1819.8	1846.5	1834.8
35°	1706.9	1727.4	1756.9	1783.6	1774.7
37.5°	1635.1	1660.4	1693.9	1717.1	1711.0
40°	1568.0	1591.3	1631.7	1646.7	1645.3
42.5°	1500.3	1519.5	1561.9	1579.0	1576.2
45°	1417.5	1442.8	1491.4	1507.9	1509.2
47.5°	1344.3	1365.6	1417.5	1430.5	1433.2
50°	1260.2	1286.9	1338.9	1354.6	1356.7
52.5°	1177.4	1206.1	1259.5	1270.4	1272.5
55°	1093.2	1119.2	1177.4	1185.6	1182.2
57.5°	1005.0	1036.5	1089.8	1093.9	1097.4
60°	918.8	946.2	998.1	1003.6	996.1
62.5°	825.1	853.1	906.5	907.8	901.7
65°	736.1	757.3	811.4	810.0	805.9
67.5°	643.1	669.1	708.8	710.1	706.7
70°	556.2	574.0	612.3	613.0	604.8
72.5°	462.5	481.6	512.4	508.3	506.3
75°	371.5	386.5	410.5	413.2	406.4
77.5°	288.0	299.0	316.8	314.7	307.2
80°	202.5	211.4	224.4	221.7	213.4
82.5°	129.3	134.8	143.0	139.6	136.1
85°	70.5	71.1	71.8	71.1	69.1
87.5°	26.0	26.7	26.7	26.0	24.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)