

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: P489317

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-3STD-35-120-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: P489317  
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-LD4-3STD-35-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

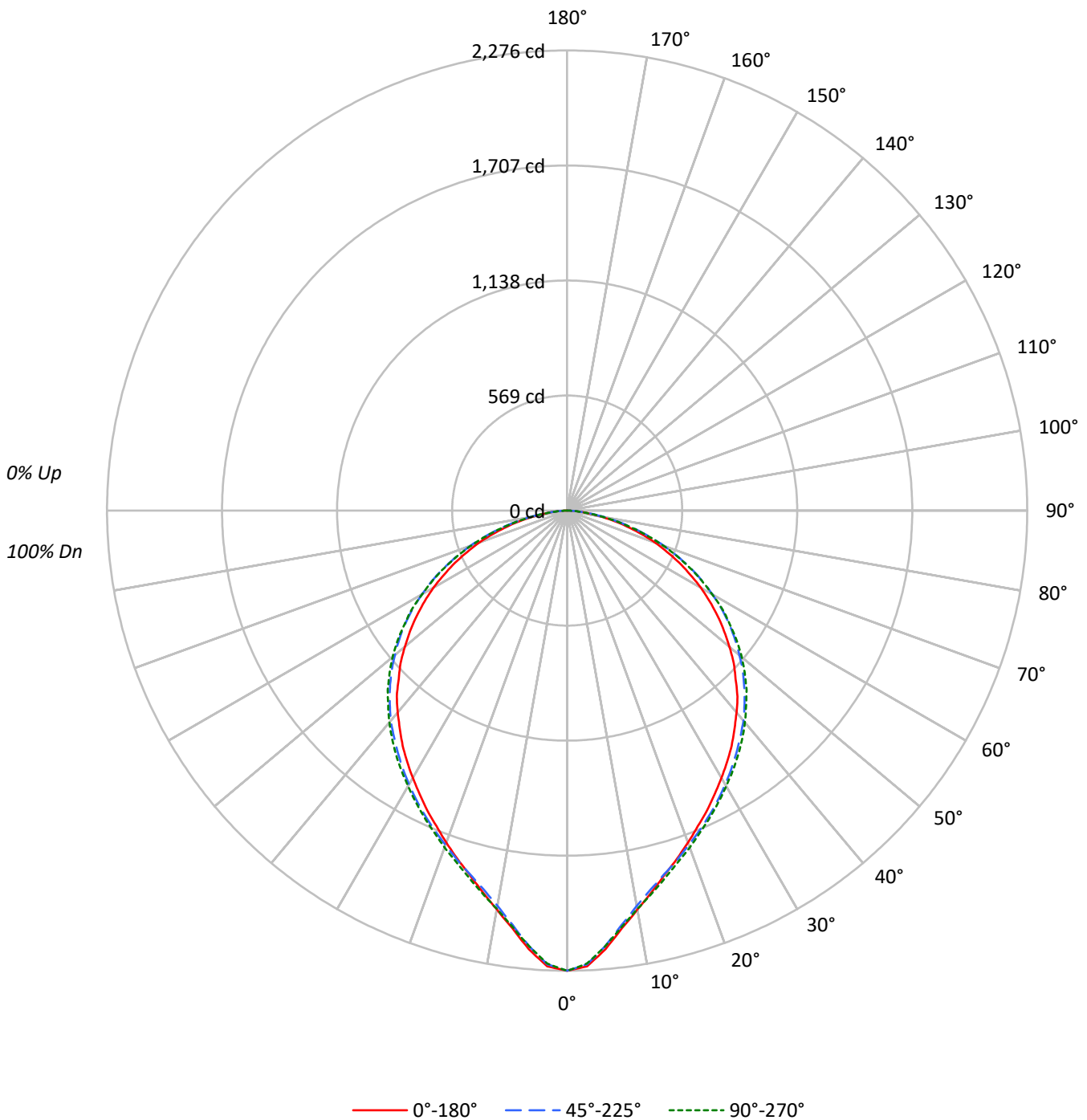
Lumens per Lamp: N/A  
Luminaire Lumens: 5286.7 lumens  
Efficiency: N/A  
Efficacy: 105.7 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 50  
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°	6125	6125	6125
5°	5881	5839	5839
10°	5473	5423	5466
15°	5193	5184	5235
20°	5003	5039	5078
25°	4860	4939	4968
30°	4743	4860	4890
35°	4661	4798	4846
40°	4579	4765	4805
45°	4485	4718	4775
50°	4386	4659	4721
55°	4264	4592	4611
60°	4111	4465	4457
65°	3896	4295	4266
70°	3637	4005	3956
75°	3211	3548	3512
80°	2608	2892	2749
85°	1809	1843	1772



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.1	3.8
10°-20°	526.8	10.0
20°-30°	766.1	14.5
30°-40°	911.6	17.2
40°-50°	946.5	17.9
50°-60°	857.5	16.2
60°-70°	647.1	12.2
70°-80°	352.6	6.7
80°-90°	77.5	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°	1494.0	28.3
0°-40°	2405.5	45.5
0°-60°	4209.6	79.6
0°-90°	5286.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5286.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2276	2276	2276	2276	2276	
5°	2177	2172	2162	2161	2162	202
15°	1864	1860	1861	1873	1879	526
25°	1637	1650	1664	1677	1673	754
35°	1419	1436	1460	1483	1475	887
45°	1178	1199	1240	1254	1255	911
55°	909	930	979	986	983	811
65°	612	630	674	673	670	605
75°	309	321	341	344	338	329
85°	59	59	60	59	57	74
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2276.0	2276.0	2276.0	2276.0	2276.0
2.5°	2256.1	2253.8	2246.4	2243.6	2243.0
5°	2177.1	2171.9	2161.7	2160.6	2161.7
7.5°	2082.6	2076.9	2066.7	2070.7	2075.8
10°	2003.0	1988.8	1984.8	1990.5	2000.2
12.5°	1931.9	1920.5	1917.1	1931.9	1938.8
15°	1864.2	1859.7	1860.8	1873.4	1879.0
17.5°	1805.7	1802.8	1810.2	1819.9	1822.8
20°	1747.1	1752.8	1759.6	1769.9	1773.2
22.5°	1689.7	1700.4	1711.9	1725.5	1720.9
25°	1636.8	1650.4	1663.5	1677.1	1673.2
27.5°	1580.5	1596.4	1614.6	1629.4	1623.7
30°	1526.4	1546.3	1564.0	1582.1	1573.6
32.5°	1473.0	1491.7	1512.8	1535.0	1525.3
35°	1418.9	1436.0	1460.5	1482.7	1475.3
37.5°	1359.2	1380.3	1408.1	1427.5	1422.4
40°	1303.5	1322.8	1356.4	1368.9	1367.8
42.5°	1247.2	1263.1	1298.4	1312.6	1310.3
45°	1178.4	1199.4	1239.8	1253.5	1254.6
47.5°	1117.5	1135.2	1178.4	1189.2	1191.4
50°	1047.6	1069.8	1113.0	1126.0	1127.8
52.5°	978.7	1002.6	1047.0	1056.1	1057.8
55°	908.8	930.4	978.7	985.6	982.8
57.5°	835.5	861.6	906.0	909.4	912.2
60°	763.8	786.5	829.7	834.3	828.1
62.5°	685.9	709.2	753.6	754.7	749.5
65°	611.9	629.6	674.5	673.4	669.9
67.5°	534.6	556.2	589.2	590.3	587.5
70°	462.3	477.1	509.0	509.6	502.8
72.5°	384.5	400.4	425.9	422.6	420.9
75°	308.8	321.3	341.2	343.5	337.8
77.5°	239.4	248.5	263.3	261.6	255.3
80°	168.3	175.7	186.6	184.3	177.4
82.5°	107.5	112.1	118.9	116.0	113.2
85°	58.6	59.1	59.7	59.1	57.4
87.5°	21.6	22.2	22.2	21.6	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)