

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: P489373

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-5LO-27-120-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: P489373  
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-27-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

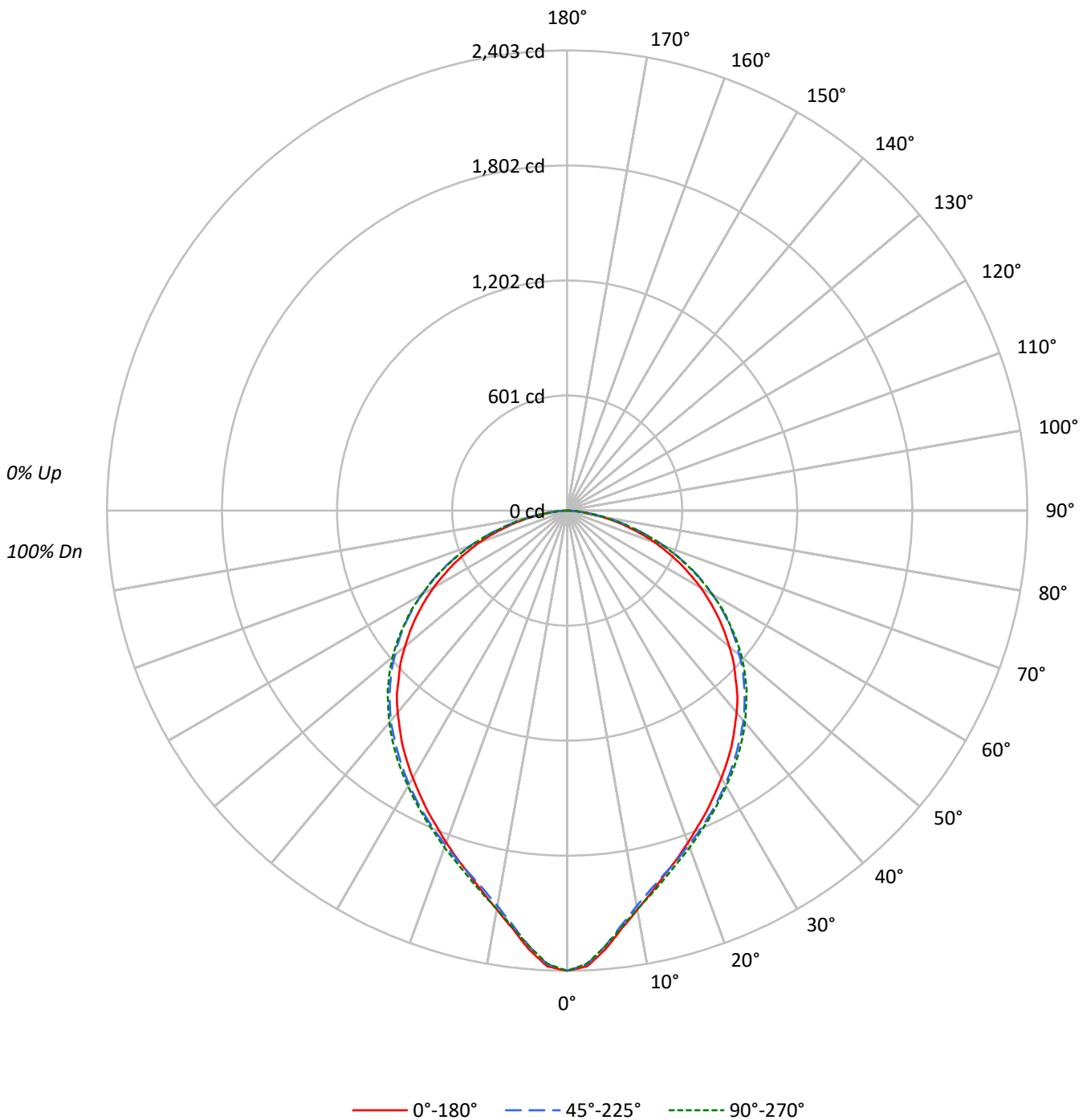
Lumens per Lamp: N/A  
Luminaire Lumens: 5581.8 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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°	6467	6467	6467
5°	6209	6165	6165
10°	5779	5726	5770
15°	5483	5473	5527
20°	5282	5320	5361
25°	5131	5215	5245
30°	5008	5131	5163
35°	4922	5066	5117
40°	4835	5031	5073
45°	4735	4982	5041
50°	4631	4919	4985
55°	4502	4848	4868
60°	4340	4715	4705
65°	4114	4534	4504
70°	3841	4228	4176
75°	3389	3746	3709
80°	2754	3053	2903
85°	1911	1945	1871



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.3	3.8
10°-20°	556.2	10.0
20°-30°	808.8	14.5
30°-40°	962.5	17.2
40°-50°	999.4	17.9
50°-60°	905.4	16.2
60°-70°	683.2	12.2
70°-80°	372.2	6.7
80°-90°	81.8	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°	1577.3	28.3
0°-40°	2539.8	45.5
0°-60°	4444.6	79.6
0°-90°	5581.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5581.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2403	2403	2403	2403	2403	
5°	2299	2293	2282	2281	2282	213
15°	1968	1964	1965	1978	1984	556
25°	1728	1742	1756	1771	1767	796
35°	1498	1516	1542	1565	1558	937
45°	1244	1266	1309	1323	1325	962
55°	960	982	1033	1041	1038	857
65°	646	665	712	711	707	639
75°	326	339	360	363	357	347
85°	62	62	63	62	61	78
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2403.1	2403.1	2403.1	2403.1	2403.1
2.5°	2382.0	2379.6	2371.8	2368.8	2368.2
5°	2298.6	2293.2	2282.3	2281.2	2282.3
7.5°	2198.9	2192.9	2182.1	2186.3	2191.7
10°	2114.8	2099.8	2095.6	2101.6	2111.8
12.5°	2039.7	2027.8	2024.1	2039.7	2047.0
15°	1968.3	1963.5	1964.7	1977.9	1983.9
17.5°	1906.5	1903.5	1911.3	1921.5	1924.5
20°	1844.6	1850.6	1857.8	1868.7	1872.2
22.5°	1784.0	1795.4	1807.4	1821.8	1817.0
25°	1728.1	1742.5	1756.4	1770.8	1766.6
27.5°	1668.7	1685.5	1704.7	1720.3	1714.3
30°	1611.6	1632.6	1651.3	1670.5	1661.5
32.5°	1555.2	1575.0	1597.2	1620.6	1610.4
35°	1498.2	1516.2	1542.0	1565.4	1557.6
37.5°	1435.1	1457.3	1486.7	1507.1	1501.8
40°	1376.3	1396.7	1432.1	1445.3	1444.1
42.5°	1316.8	1333.6	1370.9	1385.9	1383.5
45°	1244.2	1266.4	1309.0	1323.4	1324.6
47.5°	1179.9	1198.5	1244.2	1255.6	1258.0
50°	1106.1	1129.5	1175.1	1188.9	1190.7
52.5°	1033.4	1058.6	1105.4	1115.0	1116.9
55°	959.5	982.3	1033.4	1040.6	1037.6
57.5°	882.1	909.7	956.6	960.1	963.1
60°	806.4	830.4	876.1	880.9	874.3
62.5°	724.2	748.8	795.6	796.8	791.4
65°	646.1	664.7	712.1	710.9	707.3
67.5°	564.4	587.2	622.1	623.3	620.3
70°	488.2	503.8	537.4	538.0	530.8
72.5°	405.9	422.7	449.7	446.1	444.4
75°	326.0	339.3	360.3	362.7	356.7
77.5°	252.8	262.4	278.0	276.2	269.6
80°	177.7	185.5	197.0	194.6	187.3
82.5°	113.5	118.3	125.5	122.5	119.5
85°	61.9	62.4	63.0	62.4	60.6
87.5°	22.8	23.4	23.4	22.8	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)