

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: P488785

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-2HI-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: P488785
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-12-4-INS-P12125-LD4-2HI-27-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

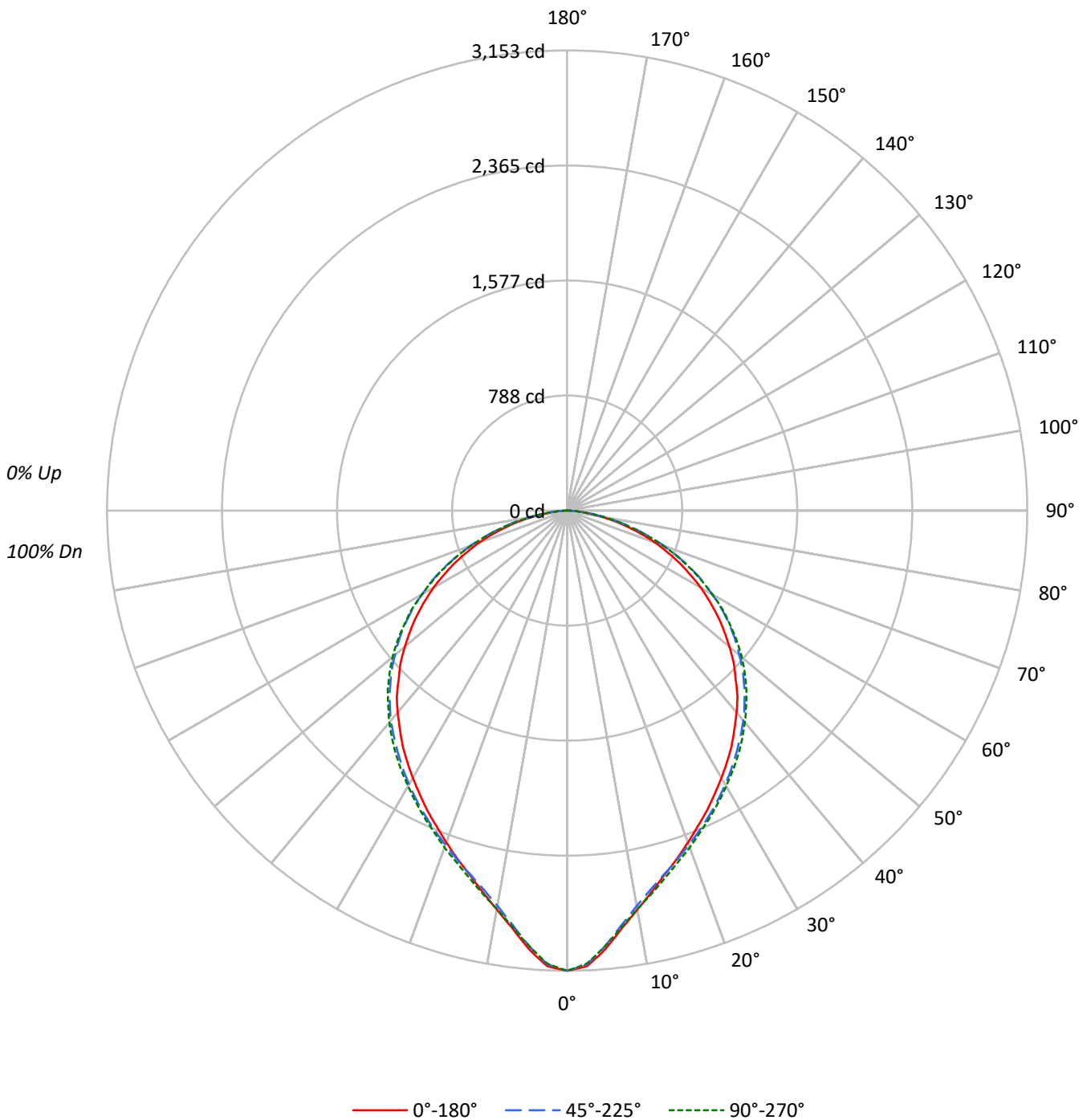
Lumens per Lamp: N/A
Luminaire Lumens: 7323.0 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 86.4
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°	8484	8484	8484
5°	8146	8088	8088
10°	7581	7512	7571
15°	7194	7181	7251
20°	6930	6980	7034
25°	6732	6842	6881
30°	6570	6732	6773
35°	6457	6646	6713
40°	6343	6600	6655
45°	6212	6535	6613
50°	6075	6454	6540
55°	5906	6360	6387
60°	5694	6185	6173
65°	5397	5949	5909
70°	5039	5547	5479
75°	4448	4915	4865
80°	3614	4004	3809
85°	2507	2553	2458



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.6	3.8
10°-20°	729.7	10.0
20°-30°	1061.1	14.5
30°-40°	1262.7	17.2
40°-50°	1311.1	17.9
50°-60°	1187.8	16.2
60°-70°	896.3	12.2
70°-80°	488.4	6.7
80°-90°	107.3	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°	2069.4	28.3
0°-40°	3332.1	45.5
0°-60°	5831.0	79.6
0°-90°	7323.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7323.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3153	3153	3153	3153	3153	
5°	3016	3008	2994	2993	2994	280
15°	2582	2576	2578	2595	2603	729
25°	2267	2286	2304	2323	2318	1045
35°	1966	1989	2023	2054	2044	1229
45°	1632	1661	1717	1736	1738	1262
55°	1259	1289	1356	1365	1361	1124
65°	848	872	934	933	928	838
75°	428	445	473	476	468	456
85°	81	82	83	82	80	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3152.7	3152.7	3152.7	3152.7	3152.7
2.5°	3125.1	3121.9	3111.7	3107.7	3106.9
5°	3015.6	3008.5	2994.3	2992.8	2994.3
7.5°	2884.8	2876.9	2862.8	2868.3	2875.4
10°	2774.5	2754.8	2749.3	2757.2	2770.6
12.5°	2676.0	2660.3	2655.5	2676.0	2685.5
15°	2582.3	2576.0	2577.6	2594.9	2602.8
17.5°	2501.2	2497.2	2507.5	2520.9	2524.8
20°	2420.0	2427.9	2437.4	2451.6	2456.3
22.5°	2340.5	2355.4	2371.2	2390.1	2383.8
25°	2267.2	2286.1	2304.3	2323.1	2317.6
27.5°	2189.2	2211.2	2236.5	2257.0	2249.1
30°	2114.3	2141.9	2166.4	2191.6	2179.8
32.5°	2040.4	2066.3	2095.5	2126.2	2112.8
35°	1965.5	1989.1	2023.0	2053.7	2043.5
37.5°	1882.8	1911.9	1950.5	1977.3	1970.2
40°	1805.6	1832.4	1878.8	1896.2	1894.6
42.5°	1727.6	1749.7	1798.5	1818.2	1815.0
45°	1632.3	1661.4	1717.3	1736.3	1737.8
47.5°	1548.0	1572.4	1632.3	1647.2	1650.4
50°	1451.1	1481.8	1541.7	1559.8	1562.2
52.5°	1355.7	1388.8	1450.3	1462.9	1465.3
55°	1258.8	1288.8	1355.7	1365.2	1361.3
57.5°	1157.2	1193.5	1254.9	1259.6	1263.6
60°	1057.9	1089.5	1149.3	1155.6	1147.0
62.5°	950.1	982.3	1043.8	1045.4	1038.3
65°	847.6	872.1	934.3	932.7	928.0
67.5°	740.5	770.4	816.1	817.7	813.8
70°	640.4	660.9	705.0	705.9	696.4
72.5°	532.6	554.6	590.0	585.3	583.0
75°	427.8	445.1	472.7	475.8	467.9
77.5°	331.7	344.3	364.7	362.4	353.7
80°	233.2	243.4	258.4	255.3	245.8
82.5°	148.9	155.2	164.7	160.7	156.8
85°	81.2	81.9	82.7	81.9	79.6
87.5°	29.9	30.7	30.7	29.9	27.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)