

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: P488833

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-3LO-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: P488833
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-LD4-3LO-27-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

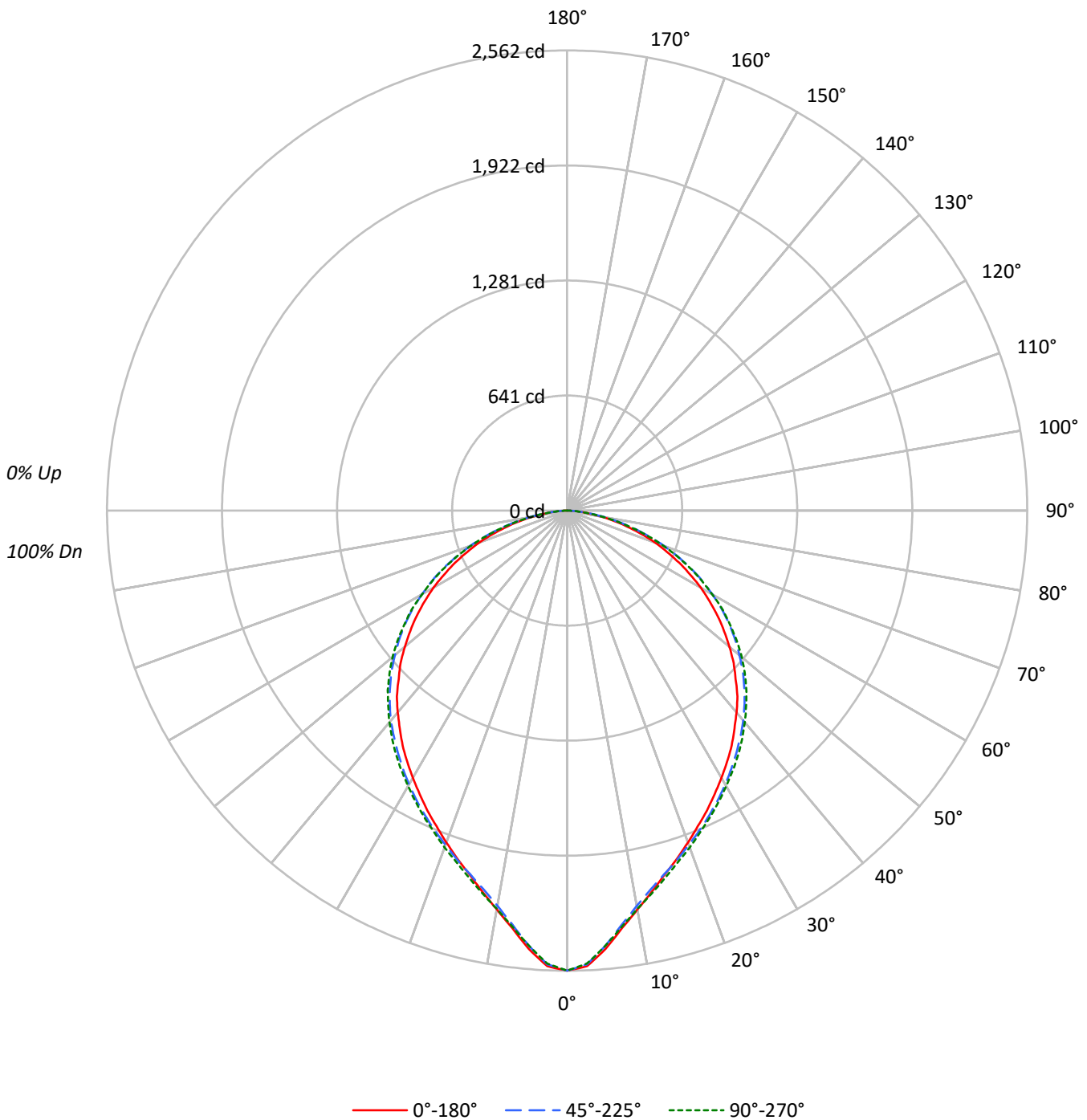
Lumens per Lamp: N/A
Luminaire Lumens: 5949.9 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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°	6893	6893	6893
5°	6619	6572	6572
10°	6160	6104	6151
15°	5845	5835	5891
20°	5631	5671	5715
25°	5470	5559	5591
30°	5338	5469	5503
35°	5246	5400	5454
40°	5153	5362	5407
45°	5047	5310	5374
50°	4936	5244	5314
55°	4799	5168	5189
60°	4626	5026	5015
65°	4385	4833	4801
70°	4094	4507	4452
75°	3614	3994	3953
80°	2935	3254	3095
85°	2035	2075	1995



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.3	3.8
10°-20°	592.9	10.0
20°-30°	862.1	14.5
30°-40°	1025.9	17.2
40°-50°	1065.3	17.9
50°-60°	965.1	16.2
60°-70°	728.2	12.2
70°-80°	396.8	6.7
80°-90°	87.2	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°	1681.4	28.3
0°-40°	2707.3	45.5
0°-60°	4737.7	79.6
0°-90°	5949.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5949.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2562	2562	2562	2562	2562	
5°	2450	2444	2433	2432	2433	227
15°	2098	2093	2094	2108	2115	592
25°	1842	1857	1872	1888	1883	849
35°	1597	1616	1644	1669	1660	998
45°	1326	1350	1395	1411	1412	1025
55°	1023	1047	1102	1109	1106	913
65°	689	708	759	758	754	681
75°	348	362	384	387	380	370
85°	66	66	67	66	65	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2561.5	2561.5	2561.5	2561.5	2561.5
2.5°	2539.1	2536.6	2528.2	2525.0	2524.4
5°	2450.2	2444.4	2432.9	2431.6	2432.9
7.5°	2343.9	2337.5	2326.0	2330.5	2336.2
10°	2254.3	2238.3	2233.8	2240.2	2251.1
12.5°	2174.3	2161.5	2157.6	2174.3	2182.0
15°	2098.1	2093.0	2094.3	2108.4	2114.7
17.5°	2032.2	2029.0	2037.3	2048.2	2051.4
20°	1966.3	1972.7	1980.4	1991.9	1995.7
22.5°	1901.6	1913.8	1926.6	1941.9	1936.8
25°	1842.1	1857.4	1872.2	1887.5	1883.1
27.5°	1778.7	1796.6	1817.1	1833.8	1827.4
30°	1717.9	1740.3	1760.2	1780.6	1771.1
32.5°	1657.8	1678.9	1702.6	1727.5	1716.6
35°	1596.9	1616.2	1643.7	1668.7	1660.3
37.5°	1529.8	1553.4	1584.8	1606.5	1600.8
40°	1467.0	1488.8	1526.5	1540.6	1539.3
42.5°	1403.6	1421.6	1461.3	1477.3	1474.7
45°	1326.2	1349.9	1395.3	1410.7	1412.0
47.5°	1257.7	1277.6	1326.2	1338.4	1340.9
50°	1179.0	1204.0	1252.6	1267.3	1269.3
52.5°	1101.5	1128.4	1178.3	1188.6	1190.5
55°	1022.8	1047.1	1101.5	1109.2	1106.0
57.5°	940.3	969.7	1019.6	1023.4	1026.7
60°	859.6	885.2	933.8	939.0	931.9
62.5°	771.9	798.1	848.1	849.3	843.6
65°	688.7	708.5	759.1	757.8	754.0
67.5°	601.6	626.0	663.1	664.4	661.2
70°	520.3	537.0	572.8	573.5	565.8
72.5°	432.7	450.6	479.4	475.6	473.7
75°	347.6	361.6	384.1	386.6	380.2
77.5°	269.5	279.7	296.4	294.4	287.4
80°	189.4	197.8	210.0	207.4	199.7
82.5°	120.9	126.1	133.8	130.6	127.4
85°	65.9	66.5	67.2	66.5	64.6
87.5°	24.3	25.0	25.0	24.3	22.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)