

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: P488838

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-3LO-40-120-EDD-90**

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: P488838
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-40-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

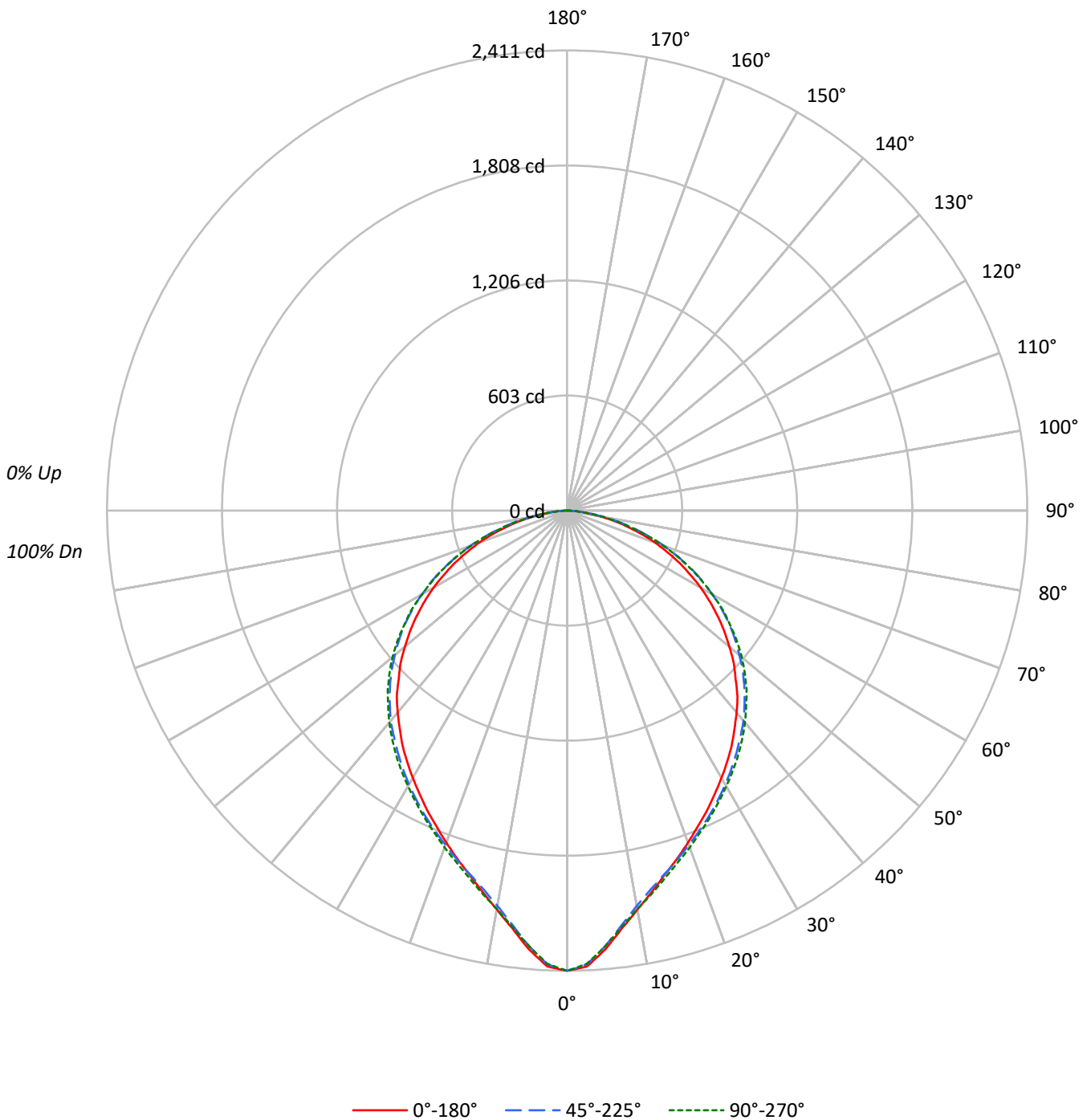
Lumens per Lamp: N/A
Luminaire Lumens: 5600.9 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	6489	6489	6489
5°	6230	6186	6186
10°	5799	5746	5790
15°	5502	5492	5546
20°	5300	5338	5380
25°	5149	5233	5263
30°	5025	5148	5180
35°	4938	5083	5134
40°	4851	5048	5090
45°	4751	4999	5058
50°	4646	4936	5002
55°	4517	4865	4885
60°	4355	4731	4722
65°	4128	4550	4519
70°	3854	4242	4190
75°	3402	3759	3721
80°	2763	3062	2913
85°	1917	1954	1877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.1	3.8
10°-20°	558.1	10.0
20°-30°	811.6	14.5
30°-40°	965.8	17.2
40°-50°	1002.8	17.9
50°-60°	908.5	16.2
60°-70°	685.5	12.2
70°-80°	373.5	6.7
80°-90°	82.1	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°	1582.7	28.3
0°-40°	2548.5	45.5
0°-60°	4459.8	79.6
0°-90°	5600.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5600.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2411	2411	2411	2411	2411	
5°	2306	2301	2290	2289	2290	214
15°	1975	1970	1971	1985	1991	557
25°	1734	1748	1762	1777	1773	799
35°	1503	1521	1547	1571	1563	940
45°	1248	1271	1314	1328	1329	965
55°	963	986	1037	1044	1041	860
65°	648	667	715	713	710	641
75°	327	340	362	364	358	349
85°	62	63	63	63	61	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2411.3	2411.3	2411.3	2411.3	2411.3
2.5°	2390.2	2387.8	2379.9	2376.9	2376.3
5°	2306.4	2301.0	2290.2	2289.0	2290.2
7.5°	2206.4	2200.4	2189.6	2193.8	2199.2
10°	2122.1	2107.0	2102.8	2108.8	2119.0
12.5°	2046.7	2034.7	2031.1	2046.7	2054.0
15°	1975.0	1970.2	1971.4	1984.7	1990.7
17.5°	1913.0	1910.0	1917.8	1928.1	1931.1
20°	1850.9	1857.0	1864.2	1875.1	1878.6
22.5°	1790.1	1801.5	1813.6	1828.0	1823.2
25°	1734.1	1748.5	1762.4	1776.8	1772.6
27.5°	1674.4	1691.2	1710.5	1726.2	1720.2
30°	1617.1	1638.2	1656.9	1676.2	1667.2
32.5°	1560.5	1580.4	1602.7	1626.2	1616.0
35°	1503.3	1521.4	1547.3	1570.8	1562.9
37.5°	1440.0	1462.3	1491.8	1512.3	1506.9
40°	1381.0	1401.5	1437.0	1450.3	1449.0
42.5°	1321.3	1338.2	1375.5	1390.6	1388.2
45°	1248.4	1270.7	1313.5	1328.0	1329.1
47.5°	1183.9	1202.6	1248.4	1259.8	1262.3
50°	1109.8	1133.3	1179.1	1193.0	1194.8
52.5°	1036.9	1062.2	1109.2	1118.9	1120.7
55°	962.8	985.7	1036.9	1044.2	1041.2
57.5°	885.1	912.8	959.8	963.4	966.4
60°	809.2	833.3	879.1	883.9	877.3
62.5°	726.6	751.3	798.3	799.5	794.1
65°	648.3	667.0	714.6	713.4	709.7
67.5°	566.3	589.2	624.2	625.4	622.4
70°	489.8	505.5	539.2	539.9	532.6
72.5°	407.3	424.2	451.3	447.7	445.9
75°	327.2	340.4	361.5	363.9	357.9
77.5°	253.7	263.3	279.0	277.2	270.5
80°	178.3	186.2	197.6	195.2	188.0
82.5°	113.9	118.7	125.9	122.9	119.9
85°	62.1	62.6	63.3	62.6	60.8
87.5°	22.9	23.5	23.5	22.9	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)