

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: P488803

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-2LO-40-120-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: P488803
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-LD4-2LO-40-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

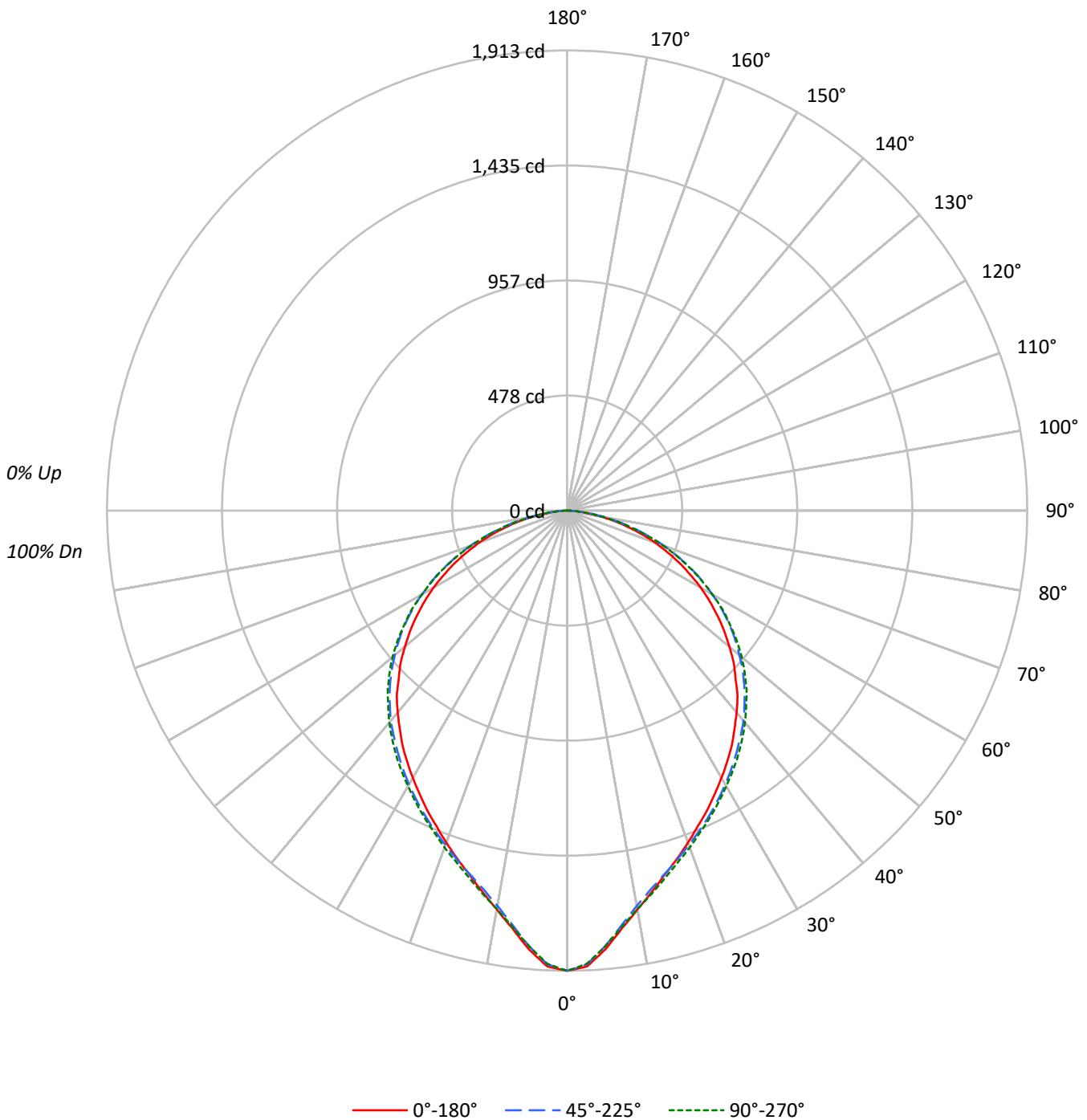
Lumens per Lamp: N/A
Luminaire Lumens: 4444.0 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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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CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-2LO-40-120-EDD

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°	5148	5148	5148
5°	4943	4908	4908
10°	4601	4559	4594
15°	4366	4358	4400
20°	4206	4236	4269
25°	4085	4152	4176
30°	3987	4085	4110
35°	3918	4033	4074
40°	3849	4005	4039
45°	3770	3966	4013
50°	3687	3917	3969
55°	3584	3860	3876
60°	3455	3754	3746
65°	3275	3610	3585
70°	3057	3367	3325
75°	2699	2983	2953
80°	2193	2430	2311
85°	1522	1550	1491



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.1	3.8
10°-20°	442.8	10.0
20°-30°	643.9	14.5
30°-40°	766.3	17.2
40°-50°	795.7	17.9
50°-60°	720.8	16.2
60°-70°	543.9	12.2
70°-80°	296.4	6.7
80°-90°	65.1	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°	1255.8	28.3
0°-40°	2022.1	45.5
0°-60°	3538.6	79.6
0°-90°	4444.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4444.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1913	1913	1913	1913	1913	
5°	1830	1826	1817	1816	1817	170
15°	1567	1563	1564	1575	1580	442
25°	1376	1387	1398	1410	1406	634
35°	1193	1207	1228	1246	1240	746
45°	991	1008	1042	1054	1055	766
55°	764	782	823	828	826	682
65°	514	529	567	566	563	509
75°	260	270	287	289	284	277
85°	49	50	50	50	48	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1913.2	1913.2	1913.2	1913.2	1913.2
2.5°	1896.5	1894.6	1888.3	1885.9	1885.5
5°	1830.0	1825.7	1817.1	1816.2	1817.1
7.5°	1750.7	1745.9	1737.3	1740.6	1744.9
10°	1683.7	1671.8	1668.4	1673.2	1681.3
12.5°	1624.0	1614.4	1611.5	1624.0	1629.7
15°	1567.1	1563.3	1564.2	1574.8	1579.5
17.5°	1517.9	1515.5	1521.7	1529.8	1532.2
20°	1468.6	1473.4	1479.1	1487.7	1490.6
22.5°	1420.3	1429.4	1439.0	1450.4	1446.6
25°	1375.9	1387.3	1398.3	1409.8	1406.5
27.5°	1328.5	1341.9	1357.2	1369.7	1364.9
30°	1283.1	1299.8	1314.7	1330.0	1322.8
32.5°	1238.2	1254.0	1271.6	1290.3	1282.2
35°	1192.8	1207.1	1227.7	1246.3	1240.1
37.5°	1142.6	1160.3	1183.7	1199.9	1195.7
40°	1095.7	1112.0	1140.2	1150.7	1149.7
42.5°	1048.4	1061.8	1091.4	1103.4	1101.5
45°	990.6	1008.2	1042.2	1053.7	1054.6
47.5°	939.4	954.2	990.6	999.6	1001.5
50°	880.6	899.2	935.6	946.5	948.0
52.5°	822.7	842.8	880.1	887.7	889.2
55°	763.9	782.1	822.7	828.5	826.1
57.5°	702.3	724.3	761.6	764.4	766.8
60°	642.0	661.2	697.5	701.3	696.1
62.5°	576.6	596.1	633.4	634.4	630.1
65°	514.4	529.2	567.0	566.0	563.1
67.5°	449.4	467.5	495.3	496.2	493.9
70°	388.6	401.1	427.9	428.4	422.6
72.5°	323.2	336.6	358.0	355.2	353.8
75°	259.6	270.1	286.9	288.8	284.0
77.5°	201.3	208.9	221.3	219.9	214.6
80°	141.5	147.7	156.8	154.9	149.1
82.5°	90.3	94.2	99.9	97.5	95.1
85°	49.3	49.7	50.2	49.7	48.3
87.5°	18.2	18.7	18.7	18.2	16.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)