

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: P489344

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-4LO-50-120-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: P489344
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-LD4-4LO-50-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

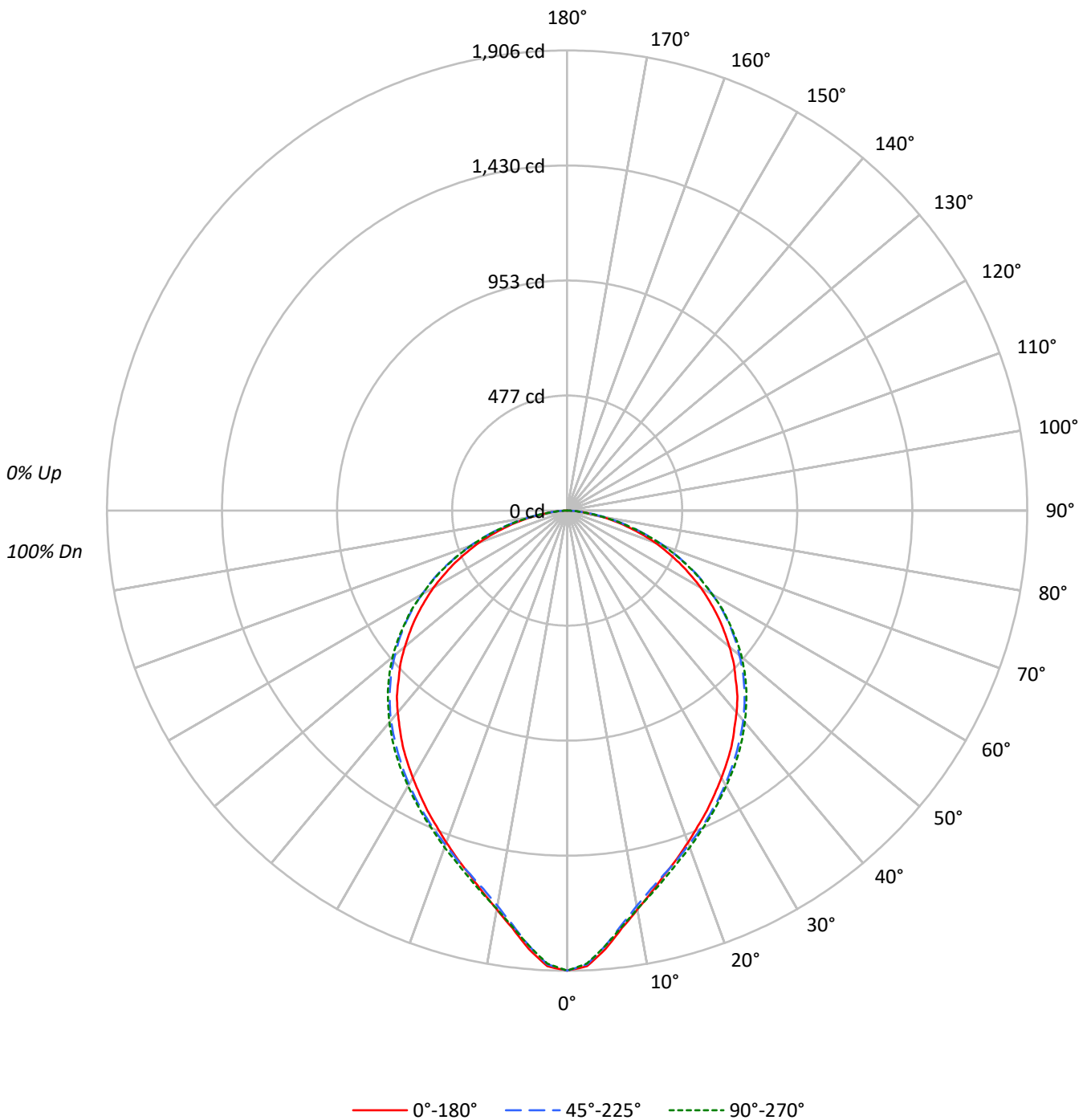
Lumens per Lamp: N/A
Luminaire Lumens: 4426.3 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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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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°	5128	5128	5128
5°	4924	4889	4889
10°	4582	4541	4576
15°	4348	4340	4383
20°	4189	4219	4252
25°	4069	4135	4160
30°	3971	4069	4094
35°	3903	4017	4058
40°	3834	3989	4023
45°	3755	3950	3997
50°	3672	3901	3953
55°	3570	3845	3860
60°	3442	3739	3731
65°	3262	3596	3571
70°	3046	3353	3312
75°	2689	2970	2940
80°	2183	2421	2301
85°	1516	1544	1485



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.4	3.8
10°-20°	441.1	10.0
20°-30°	641.4	14.5
30°-40°	763.2	17.2
40°-50°	792.5	17.9
50°-60°	718.0	16.2
60°-70°	541.8	12.2
70°-80°	295.2	6.7
80°-90°	64.9	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°	1250.8	28.3
0°-40°	2014.0	45.5
0°-60°	3524.5	79.6
0°-90°	4426.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4426.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1906	1906	1906	1906	1906	
5°	1823	1818	1810	1809	1810	169
15°	1561	1557	1558	1568	1573	441
25°	1370	1382	1393	1404	1401	631
35°	1188	1202	1223	1241	1235	743
45°	987	1004	1038	1050	1050	763
55°	761	779	820	825	823	679
65°	512	527	565	564	561	506
75°	259	269	286	288	283	275
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°	1905.6	1905.6	1905.6	1905.6	1905.6
2.5°	1888.9	1887.0	1880.8	1878.4	1877.9
5°	1822.7	1818.5	1809.9	1808.9	1809.9
7.5°	1743.7	1738.9	1730.4	1733.7	1738.0
10°	1677.0	1665.1	1661.8	1666.5	1674.6
12.5°	1617.5	1608.0	1605.1	1617.5	1623.2
15°	1560.8	1557.0	1558.0	1568.5	1573.2
17.5°	1511.8	1509.4	1515.6	1523.7	1526.1
20°	1462.8	1467.5	1473.2	1481.8	1484.7
22.5°	1414.7	1423.7	1433.3	1444.7	1440.9
25°	1370.4	1381.8	1392.8	1404.2	1400.9
27.5°	1323.2	1336.6	1351.8	1364.2	1359.4
30°	1278.0	1294.7	1309.4	1324.7	1317.5
32.5°	1233.3	1249.0	1266.6	1285.2	1277.1
35°	1188.0	1202.3	1222.8	1241.4	1235.2
37.5°	1138.0	1155.6	1178.9	1195.1	1190.9
40°	1091.4	1107.6	1135.6	1146.1	1145.2
42.5°	1044.2	1057.6	1087.1	1099.0	1097.1
45°	986.6	1004.2	1038.0	1049.5	1050.4
47.5°	935.7	950.4	986.6	995.6	997.5
50°	877.1	895.7	931.9	942.8	944.2
52.5°	819.5	839.4	876.6	884.2	885.7
55°	760.9	779.0	819.5	825.2	822.8
57.5°	699.5	721.4	758.5	761.4	763.8
60°	639.5	658.5	694.7	698.5	693.3
62.5°	574.3	593.8	630.9	631.9	627.6
65°	512.3	527.1	564.7	563.8	560.9
67.5°	447.6	465.7	493.3	494.2	491.9
70°	387.1	399.5	426.2	426.6	420.9
72.5°	321.9	335.2	356.6	353.8	352.4
75°	258.6	269.0	285.7	287.6	282.8
77.5°	200.5	208.1	220.5	219.0	213.8
80°	140.9	147.1	156.2	154.3	148.5
82.5°	90.0	93.8	99.5	97.1	94.8
85°	49.1	49.5	50.0	49.5	48.1
87.5°	18.1	18.6	18.6	18.1	16.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)