

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: P489316

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-3STD-35-120-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: P489316
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-LD4-3STD-35-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

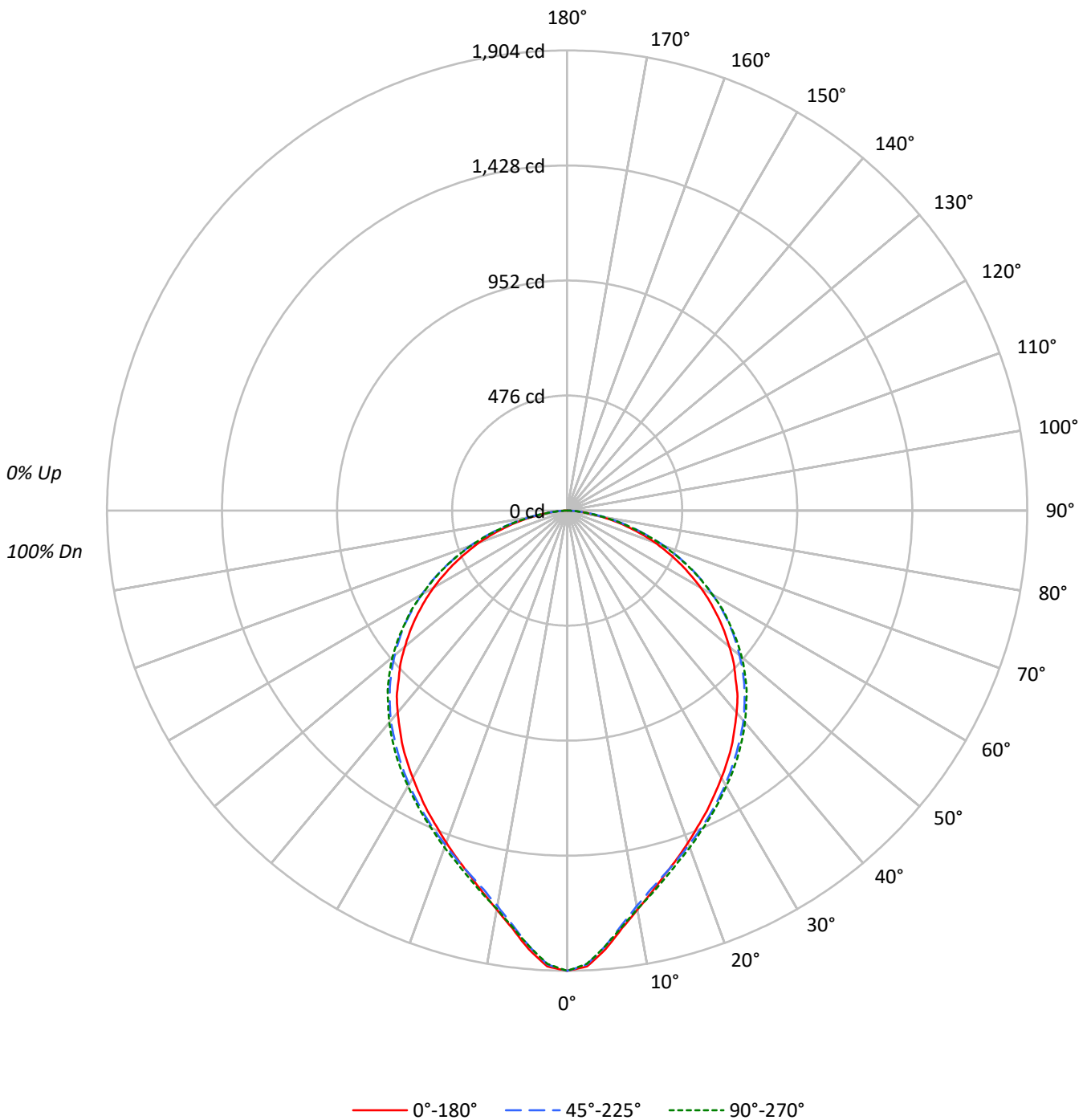
Lumens per Lamp: N/A
Luminaire Lumens: 4423.6 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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°	5125	5125	5125
5°	4921	4886	4886
10°	4580	4538	4573
15°	4346	4338	4380
20°	4186	4216	4249
25°	4067	4133	4157
30°	3969	4066	4091
35°	3900	4014	4055
40°	3831	3987	4020
45°	3752	3948	3995
50°	3670	3899	3951
55°	3567	3842	3858
60°	3440	3737	3729
65°	3260	3594	3570
70°	3044	3351	3310
75°	2687	2968	2939
80°	2182	2419	2301
85°	1513	1544	1485



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.3	3.8
10°-20°	440.8	10.0
20°-30°	641.0	14.5
30°-40°	762.8	17.2
40°-50°	792.0	17.9
50°-60°	717.5	16.2
60°-70°	541.4	12.2
70°-80°	295.0	6.7
80°-90°	64.8	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°	1250.1	28.3
0°-40°	2012.8	45.5
0°-60°	3522.3	79.6
0°-90°	4423.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4423.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1904	1904	1904	1904	1904	
5°	1822	1817	1809	1808	1809	169
15°	1560	1556	1557	1568	1572	440
25°	1370	1381	1392	1403	1400	631
35°	1187	1202	1222	1241	1234	742
45°	986	1004	1037	1049	1050	762
55°	760	778	819	825	822	679
65°	512	527	564	563	561	506
75°	258	269	286	287	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°	1904.4	1904.4	1904.4	1904.4	1904.4
2.5°	1887.8	1885.9	1879.7	1877.3	1876.8
5°	1821.6	1817.3	1808.8	1807.8	1808.8
7.5°	1742.6	1737.9	1729.3	1732.6	1736.9
10°	1676.0	1664.1	1660.8	1665.5	1673.6
12.5°	1616.5	1607.0	1604.1	1616.5	1622.3
15°	1559.9	1556.1	1557.0	1567.5	1572.3
17.5°	1510.9	1508.5	1514.7	1522.8	1525.2
20°	1461.9	1466.6	1472.3	1480.9	1483.7
22.5°	1413.8	1422.8	1432.4	1443.8	1440.0
25°	1369.6	1381.0	1391.9	1403.3	1400.0
27.5°	1322.4	1335.7	1351.0	1363.4	1358.6
30°	1277.2	1293.9	1308.6	1323.9	1316.7
32.5°	1232.5	1248.2	1265.8	1284.4	1276.3
35°	1187.3	1201.6	1222.0	1240.6	1234.4
37.5°	1137.3	1154.9	1178.2	1194.4	1190.2
40°	1090.7	1106.9	1134.9	1145.4	1144.5
42.5°	1043.6	1056.9	1086.4	1098.3	1096.4
45°	986.0	1003.6	1037.4	1048.8	1049.8
47.5°	935.1	949.8	986.0	995.0	996.9
50°	876.6	895.1	931.3	942.2	943.7
52.5°	819.0	838.9	876.1	883.7	885.1
55°	760.4	778.5	819.0	824.7	822.3
57.5°	699.1	720.9	758.1	760.9	763.3
60°	639.1	658.1	694.3	698.1	692.9
62.5°	573.9	593.4	630.5	631.5	627.2
65°	512.0	526.8	564.4	563.4	560.6
67.5°	447.3	465.4	493.0	493.9	491.6
70°	386.9	399.2	425.9	426.4	420.7
72.5°	321.7	335.0	356.4	353.6	352.2
75°	258.4	268.9	285.5	287.4	282.7
77.5°	200.3	208.0	220.3	218.9	213.7
80°	140.8	147.0	156.1	154.2	148.5
82.5°	89.9	93.8	99.5	97.1	94.7
85°	49.0	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)