

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: P489339

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-4LO-30-120-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: P489339
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-30-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

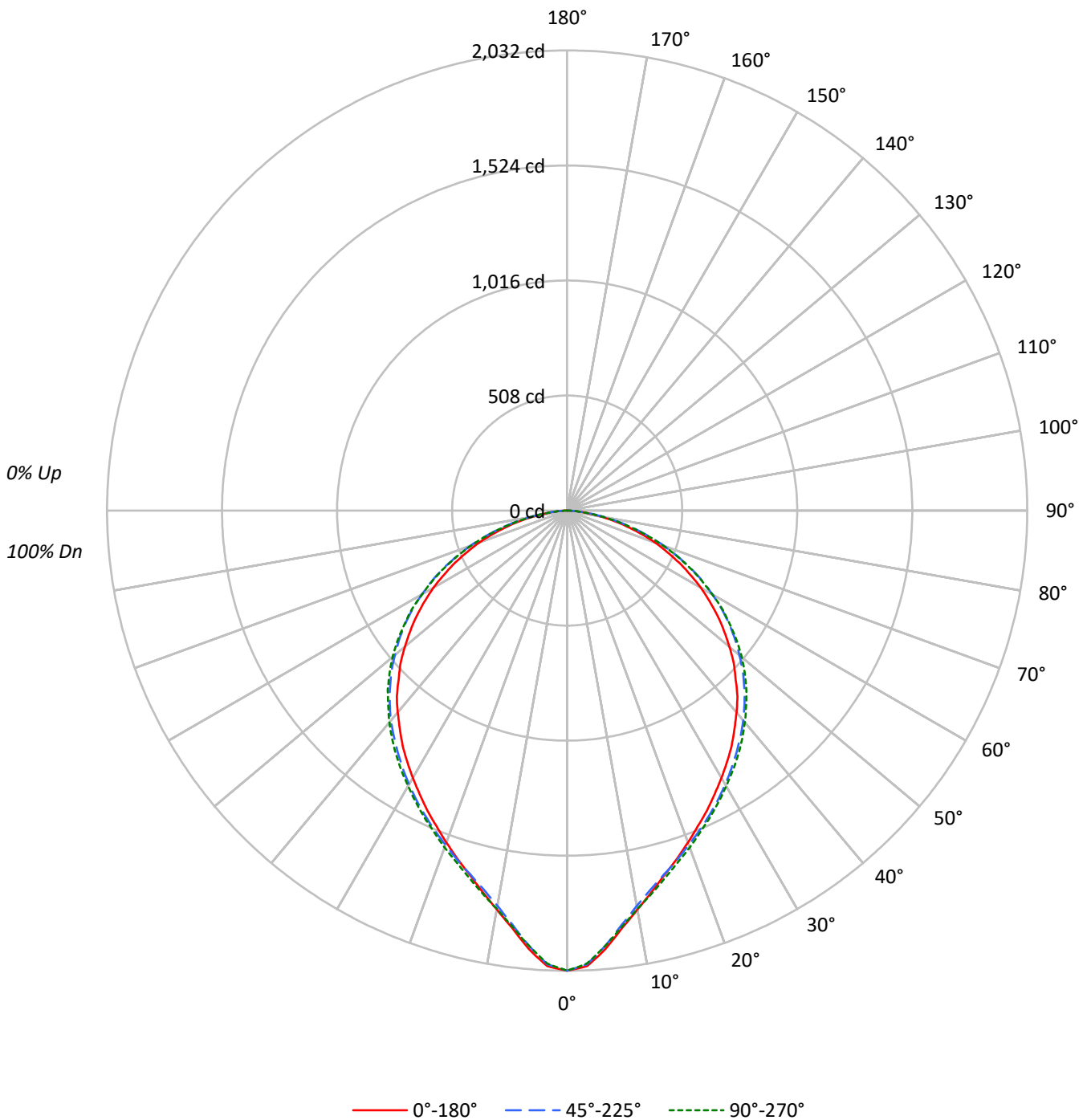
Lumens per Lamp: N/A
Luminaire Lumens: 4719.3 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	5467	5467	5467
5°	5250	5213	5213
10°	4886	4841	4879
15°	4636	4628	4673
20°	4466	4498	4533
25°	4338	4409	4435
30°	4234	4338	4365
35°	4161	4283	4326
40°	4088	4253	4289
45°	4003	4212	4262
50°	3915	4159	4214
55°	3806	4099	4116
60°	3669	3986	3978
65°	3478	3834	3808
70°	3247	3575	3531
75°	2866	3167	3136
80°	2329	2580	2455
85°	1615	1646	1584



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.5	3.8
10°-20°	470.3	10.0
20°-30°	683.8	14.5
30°-40°	813.7	17.2
40°-50°	844.9	17.9
50°-60°	765.5	16.2
60°-70°	577.6	12.2
70°-80°	314.7	6.7
80°-90°	69.2	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°	1333.6	28.3
0°-40°	2147.4	45.5
0°-60°	3757.8	79.6
0°-90°	4719.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4719.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2032	2032	2032	2032	2032	
5°	1943	1939	1930	1929	1930	180
15°	1664	1660	1661	1672	1677	470
25°	1461	1473	1485	1497	1494	673
35°	1267	1282	1304	1324	1317	792
45°	1052	1071	1107	1119	1120	813
55°	811	830	874	880	877	724
65°	546	562	602	601	598	540
75°	276	287	305	307	302	294
85°	52	53	53	53	51	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2031.7	2031.7	2031.7	2031.7	2031.7
2.5°	2014.0	2011.9	2005.3	2002.8	2002.3
5°	1943.4	1938.8	1929.7	1928.7	1929.7
7.5°	1859.1	1854.0	1844.9	1848.5	1853.0
10°	1788.0	1775.4	1771.8	1776.9	1785.5
12.5°	1724.6	1714.4	1711.4	1724.6	1730.7
15°	1664.1	1660.1	1661.1	1672.3	1677.4
17.5°	1611.9	1609.3	1615.9	1624.6	1627.1
20°	1559.6	1564.7	1570.8	1579.9	1582.9
22.5°	1508.3	1517.9	1528.1	1540.3	1536.2
25°	1461.1	1473.3	1485.0	1497.1	1493.6
27.5°	1410.8	1425.0	1441.3	1454.5	1449.4
30°	1362.6	1380.4	1396.1	1412.3	1404.7
32.5°	1314.9	1331.6	1350.4	1370.2	1361.6
35°	1266.7	1281.9	1303.7	1323.5	1316.9
37.5°	1213.4	1232.1	1257.0	1274.3	1269.7
40°	1163.6	1180.9	1210.8	1222.0	1221.0
42.5°	1113.3	1127.6	1159.0	1171.7	1169.7
45°	1051.9	1070.7	1106.7	1118.9	1119.9
47.5°	997.6	1013.3	1051.9	1061.5	1063.6
50°	935.1	955.0	993.5	1005.2	1006.7
52.5°	873.7	895.0	934.6	942.7	944.3
55°	811.3	830.5	873.7	879.8	877.3
57.5°	745.8	769.1	808.7	811.8	814.3
60°	681.8	702.1	740.7	744.8	739.2
62.5°	612.3	633.1	672.7	673.7	669.1
65°	546.2	562.0	602.1	601.1	598.0
67.5°	477.2	496.5	526.0	527.0	524.5
70°	412.7	425.9	454.4	454.9	448.8
72.5°	343.2	357.4	380.2	377.2	375.7
75°	275.7	286.8	304.6	306.7	301.6
77.5°	213.7	221.9	235.1	233.5	227.9
80°	150.3	156.9	166.5	164.5	158.4
82.5°	95.9	100.0	106.1	103.6	101.0
85°	52.3	52.8	53.3	52.8	51.3
87.5°	19.3	19.8	19.8	19.3	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)