

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: P489807

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-2LO-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: P489807
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-24-4-INS-P12125-LD4-2LO-30-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

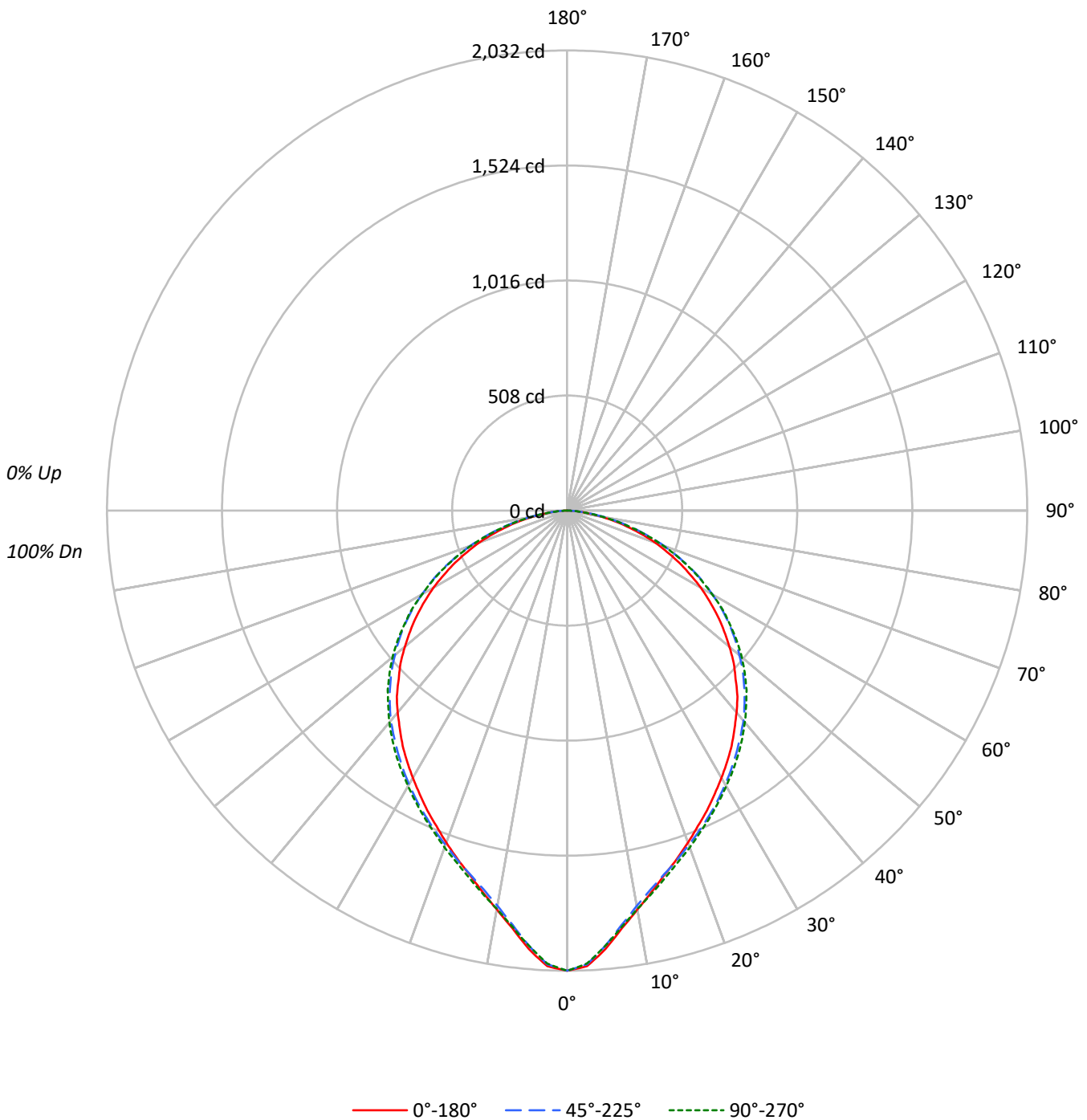
Lumens per Lamp: N/A
Luminaire Lumens: 4719.5 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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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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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59					59			
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30					30			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27					27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2734	2734	2734
5°	2625	2606	2606
10°	2443	2421	2440
15°	2318	2314	2337
20°	2233	2249	2267
25°	2169	2205	2218
30°	2117	2169	2183
35°	2081	2142	2163
40°	2044	2127	2145
45°	2002	2106	2131
50°	1958	2080	2107
55°	1903	2050	2058
60°	1835	1993	1989
65°	1739	1917	1904
70°	1624	1788	1766
75°	1433	1583	1568
80°	1165	1290	1227
85°	807	823	792



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.5	3.8
10°-20°	470.3	10.0
20°-30°	683.9	14.5
30°-40°	813.8	17.2
40°-50°	845.0	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°	1333.7	28.3
0°-40°	2147.5	45.5
0°-60°	3758.0	79.6
0°-90°	4719.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4719.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2032	2032	2032	2032	2032	
5°	1944	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	831	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°	2031.8	2031.8	2031.8	2031.8	2031.8
2.5°	2014.0	2012.0	2005.4	2002.9	2002.3
5°	1943.5	1938.9	1929.8	1928.8	1929.8
7.5°	1859.2	1854.1	1845.0	1848.5	1853.1
10°	1788.1	1775.4	1771.8	1776.9	1785.6
12.5°	1724.6	1714.5	1711.4	1724.6	1730.8
15°	1664.2	1660.2	1661.2	1672.4	1677.4
17.5°	1612.0	1609.4	1616.0	1624.6	1627.2
20°	1559.7	1564.7	1570.8	1580.0	1583.0
22.5°	1508.4	1518.0	1528.2	1540.4	1536.3
25°	1461.2	1473.3	1485.0	1497.2	1493.7
27.5°	1410.9	1425.1	1441.4	1454.6	1449.5
30°	1362.6	1380.4	1396.2	1412.4	1404.8
32.5°	1315.0	1331.7	1350.5	1370.3	1361.7
35°	1266.7	1281.9	1303.8	1323.6	1317.0
37.5°	1213.4	1232.2	1257.0	1274.3	1269.8
40°	1163.7	1180.9	1210.9	1222.0	1221.0
42.5°	1113.4	1127.6	1159.1	1171.8	1169.7
45°	1052.0	1070.7	1106.8	1119.0	1120.0
47.5°	997.6	1013.4	1052.0	1061.6	1063.6
50°	935.2	955.0	993.6	1005.2	1006.8
52.5°	873.7	895.1	934.7	942.8	944.3
55°	811.3	830.6	873.7	879.9	877.3
57.5°	745.8	769.2	808.8	811.8	814.4
60°	681.8	702.1	740.7	744.8	739.2
62.5°	612.3	633.1	672.7	673.7	669.1
65°	546.3	562.0	602.1	601.1	598.1
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	286.9	304.6	306.7	301.6
77.5°	213.8	221.9	235.1	233.6	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)