

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: P489374

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-5LO-30-120-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: P489374
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-LD4-5LO-30-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

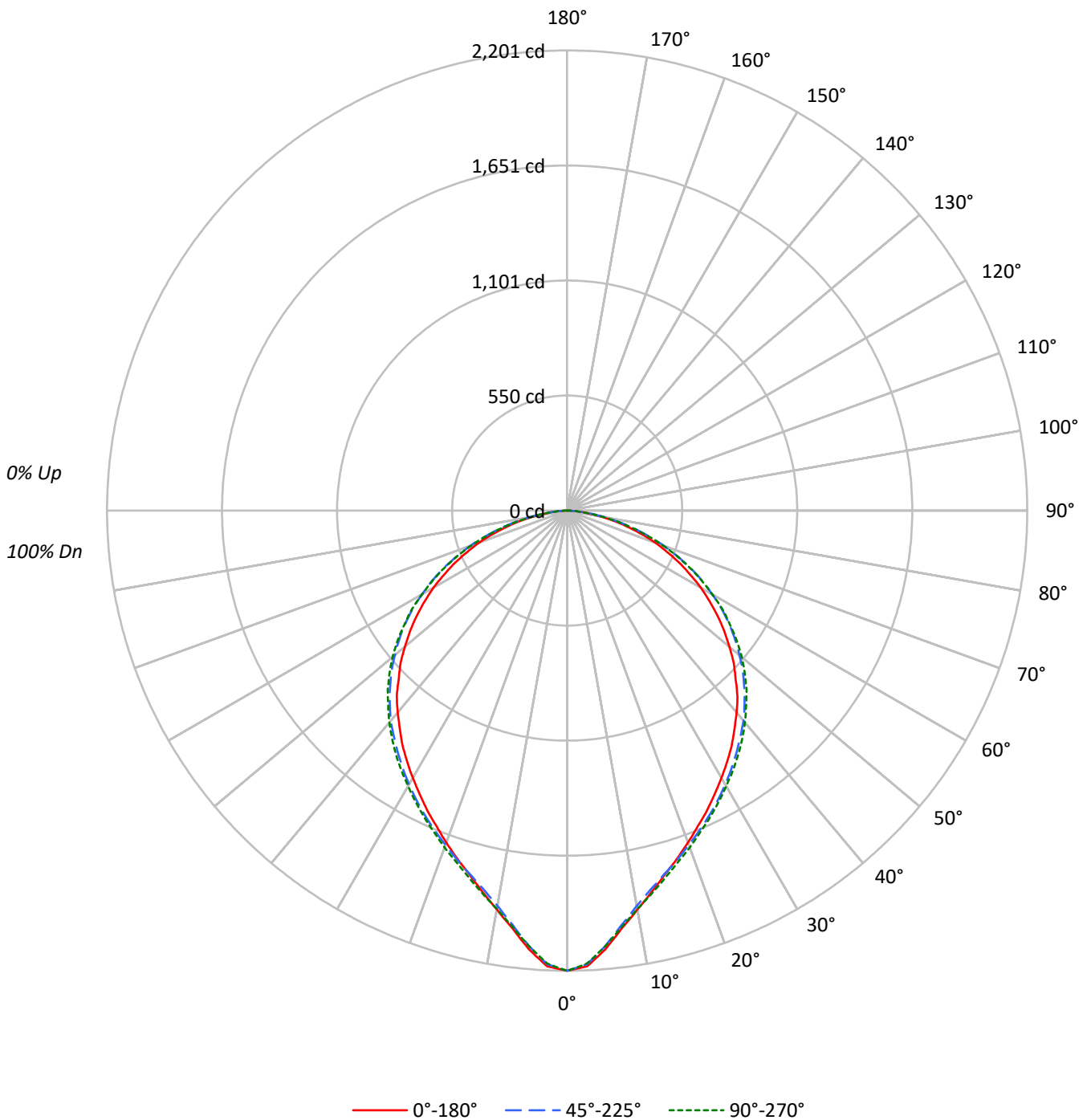
Lumens per Lamp: N/A
Luminaire Lumens: 5112.5 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 58.5
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°	5923	5923	5923
5°	5687	5647	5647
10°	5293	5245	5285
15°	5022	5013	5062
20°	4838	4873	4911
25°	4700	4776	4804
30°	4587	4699	4729
35°	4508	4640	4687
40°	4428	4608	4646
45°	4337	4563	4617
50°	4241	4506	4566
55°	4123	4441	4459
60°	3975	4318	4310
65°	3768	4153	4125
70°	3518	3873	3825
75°	3105	3431	3397
80°	2523	2796	2659
85°	1751	1782	1714



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.5	3.8
10°-20°	509.4	10.0
20°-30°	740.8	14.5
30°-40°	881.5	17.2
40°-50°	915.4	17.9
50°-60°	829.3	16.2
60°-70°	625.8	12.2
70°-80°	340.9	6.7
80°-90°	74.9	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°	1444.7	28.3
0°-40°	2326.3	45.5
0°-60°	4070.9	79.6
0°-90°	5112.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5112.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2201	2201	2201	2201	2201	
5°	2105	2100	2090	2089	2090	195
15°	1803	1798	1800	1812	1817	509
25°	1583	1596	1609	1622	1618	729
35°	1372	1389	1412	1434	1427	858
45°	1140	1160	1199	1212	1213	881
55°	879	900	946	953	950	785
65°	592	609	652	651	648	585
75°	299	311	330	332	327	318
85°	57	57	58	57	56	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2201.0	2201.0	2201.0	2201.0	2201.0
2.5°	2181.8	2179.6	2172.4	2169.6	2169.1
5°	2105.3	2100.4	2090.5	2089.4	2090.5
7.5°	2014.0	2008.5	1998.6	2002.5	2007.4
10°	1937.0	1923.3	1919.4	1924.9	1934.3
12.5°	1868.2	1857.3	1853.9	1868.2	1874.9
15°	1802.8	1798.4	1799.5	1811.6	1817.1
17.5°	1746.2	1743.4	1750.6	1759.9	1762.7
20°	1689.5	1695.0	1701.6	1711.5	1714.8
22.5°	1634.0	1644.4	1655.4	1668.6	1664.2
25°	1582.8	1596.0	1608.7	1621.9	1618.0
27.5°	1528.4	1543.8	1561.4	1575.7	1570.2
30°	1476.1	1495.4	1512.4	1530.0	1521.8
32.5°	1424.5	1442.6	1462.9	1484.4	1475.0
35°	1372.2	1388.7	1412.3	1433.8	1426.7
37.5°	1314.5	1334.8	1361.7	1380.4	1375.5
40°	1260.6	1279.3	1311.7	1323.8	1322.7
42.5°	1206.1	1221.5	1255.6	1269.3	1267.1
45°	1139.6	1159.9	1198.9	1212.2	1213.2
47.5°	1080.7	1097.8	1139.6	1150.0	1152.2
50°	1013.1	1034.5	1076.3	1088.9	1090.6
52.5°	946.5	969.6	1012.5	1021.3	1023.0
55°	878.8	899.7	946.5	953.1	950.4
57.5°	807.9	833.2	876.1	879.4	882.2
60°	738.6	760.6	802.4	806.8	800.8
62.5°	663.3	685.8	728.7	729.8	724.9
65°	591.8	608.8	652.2	651.2	647.9
67.5°	517.0	537.9	569.8	570.9	568.1
70°	447.1	461.4	492.2	492.8	486.2
72.5°	371.8	387.2	411.9	408.6	407.0
75°	298.6	310.7	330.0	332.2	326.7
77.5°	231.6	240.3	254.6	253.0	246.9
80°	162.8	169.9	180.4	178.2	171.6
82.5°	103.9	108.4	115.0	112.2	109.4
85°	56.7	57.2	57.7	57.2	55.5
87.5°	20.9	21.5	21.5	20.9	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)