

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: P489322

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-4HI-20-120-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: P489322
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-LD4-4HI-20-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

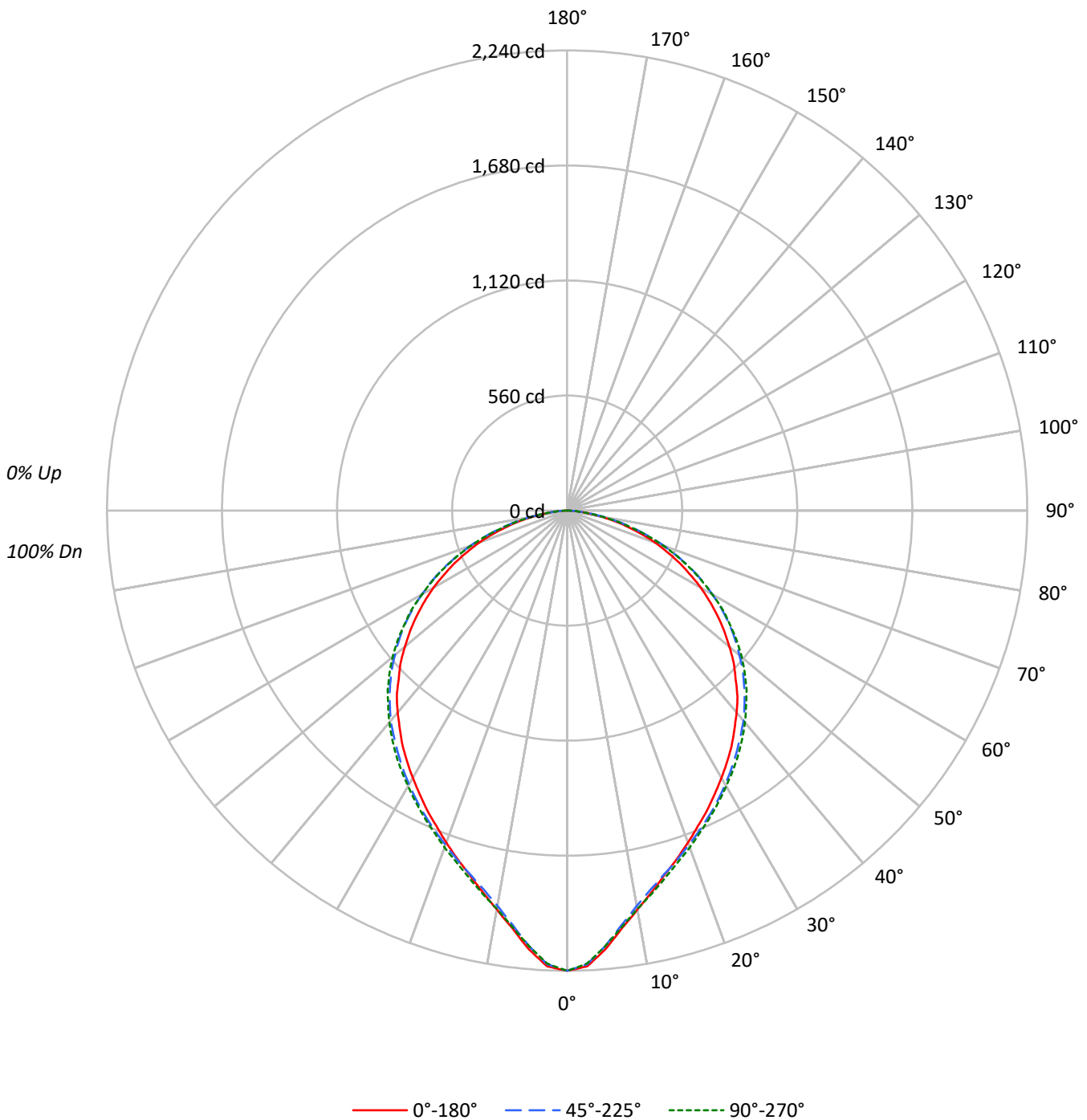
Lumens per Lamp: N/A
Luminaire Lumens: 5203.2 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 86.4
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

TEST NUMBER: P489322

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-4HI-20-120-EDD-90

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°	6028	6028	6028
5°	5788	5747	5747
10°	5387	5338	5379
15°	5112	5102	5152
20°	4924	4959	4998
25°	4783	4861	4890
30°	4668	4783	4813
35°	4588	4722	4770
40°	4507	4690	4729
45°	4414	4644	4699
50°	4316	4586	4647
55°	4196	4519	4538
60°	4046	4395	4386
65°	3835	4227	4198
70°	3580	3942	3893
75°	3160	3492	3457
80°	2568	2845	2706
85°	1782	1815	1744



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.9	3.8
10°-20°	518.5	10.0
20°-30°	753.9	14.5
30°-40°	897.2	17.2
40°-50°	931.6	17.9
50°-60°	844.0	16.2
60°-70°	636.9	12.2
70°-80°	347.0	6.7
80°-90°	76.3	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°	1470.4	28.3
0°-40°	2367.5	45.5
0°-60°	4143.1	79.6
0°-90°	5203.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5203.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2240	2240	2240	2240	2240	
5°	2143	2138	2128	2126	2128	199
15°	1835	1830	1832	1844	1849	518
25°	1611	1624	1637	1651	1647	742
35°	1396	1413	1437	1459	1452	873
45°	1160	1180	1220	1234	1235	896
55°	894	916	963	970	967	799
65°	602	620	664	663	659	595
75°	304	316	336	338	332	324
85°	58	58	59	58	56	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2240.1	2240.1	2240.1	2240.1	2240.1
2.5°	2220.5	2218.2	2210.9	2208.1	2207.6
5°	2142.7	2137.6	2127.5	2126.4	2127.5
7.5°	2049.7	2044.1	2034.1	2038.0	2043.0
10°	1971.4	1957.4	1953.4	1959.1	1968.6
12.5°	1901.4	1890.2	1886.8	1901.4	1908.2
15°	1834.8	1830.3	1831.5	1843.8	1849.3
17.5°	1777.2	1774.4	1781.6	1791.2	1794.0
20°	1719.5	1725.1	1731.8	1741.9	1745.2
22.5°	1663.0	1673.6	1684.8	1698.2	1693.8
25°	1610.9	1624.3	1637.2	1650.7	1646.8
27.5°	1555.5	1571.1	1589.1	1603.6	1598.0
30°	1502.3	1521.9	1539.3	1557.2	1548.8
32.5°	1449.7	1468.2	1488.9	1510.7	1501.2
35°	1396.5	1413.3	1437.4	1459.2	1452.0
37.5°	1337.8	1358.5	1385.9	1404.9	1399.9
40°	1282.9	1301.9	1335.0	1347.3	1346.1
42.5°	1227.5	1243.2	1277.9	1291.9	1289.6
45°	1159.8	1180.5	1220.2	1233.7	1234.8
47.5°	1099.9	1117.2	1159.8	1170.4	1172.6
50°	1031.0	1052.9	1095.4	1108.3	1110.0
52.5°	963.3	986.8	1030.5	1039.4	1041.1
55°	894.4	915.7	963.3	970.0	967.2
57.5°	822.3	848.0	891.7	895.0	897.8
60°	751.7	774.1	816.6	821.1	815.0
62.5°	675.0	698.0	741.7	742.8	737.7
65°	602.3	619.6	663.8	662.7	659.3
67.5°	526.1	547.4	579.9	581.0	578.2
70°	455.0	469.6	501.0	501.5	494.8
72.5°	378.4	394.0	419.2	415.9	414.2
75°	303.9	316.3	335.9	338.1	332.5
77.5°	235.7	244.6	259.2	257.5	251.3
80°	165.7	172.9	183.6	181.4	174.6
82.5°	105.8	110.3	117.0	114.2	111.4
85°	57.7	58.2	58.8	58.2	56.5
87.5°	21.3	21.8	21.8	21.3	19.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)