

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: P489343

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-4LO-40-120-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: P489343
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-40-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

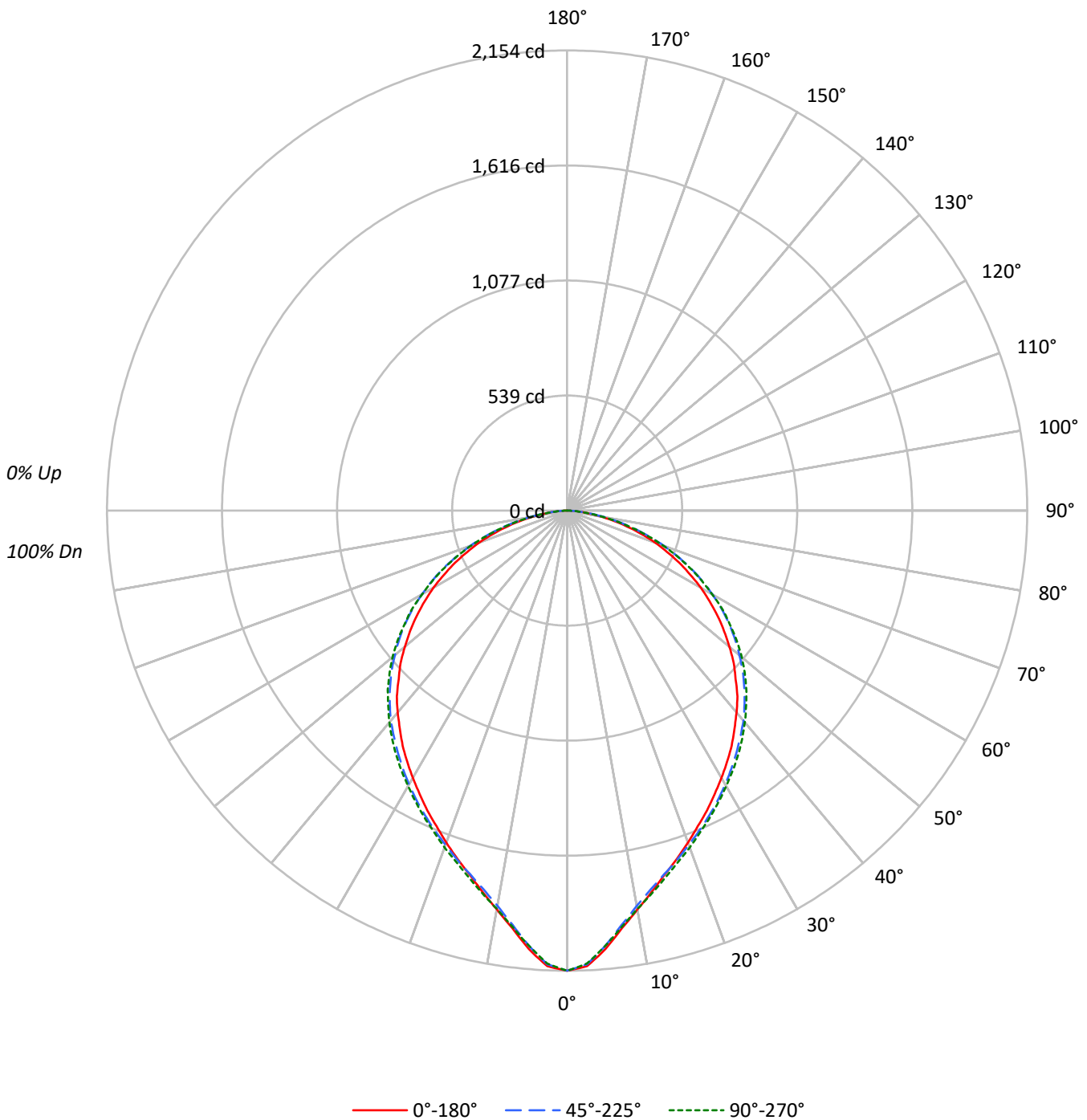
Lumens per Lamp: N/A
Luminaire Lumens: 5002.8 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P489343

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-4LO-40-120-EDD

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°	5796	5796	5796
5°	5565	5526	5526
10°	5179	5132	5172
15°	4915	4906	4954
20°	4735	4768	4805
25°	4599	4674	4701
30°	4488	4599	4627
35°	4411	4540	4586
40°	4333	4509	4547
45°	4244	4465	4518
50°	4150	4409	4468
55°	4035	4345	4363
60°	3890	4226	4217
65°	3687	4064	4037
70°	3442	3790	3744
75°	3038	3357	3324
80°	2469	2735	2602
85°	1711	1744	1677



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.3	3.8
10°-20°	498.5	10.0
20°-30°	724.9	14.5
30°-40°	862.6	17.2
40°-50°	895.7	17.9
50°-60°	811.5	16.2
60°-70°	612.3	12.2
70°-80°	333.6	6.7
80°-90°	73.3	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°	1413.7	28.3
0°-40°	2276.4	45.5
0°-60°	3983.5	79.6
0°-90°	5002.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5002.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2154	2154	2154	2154	2154	
5°	2060	2055	2046	2044	2046	191
15°	1764	1760	1761	1773	1778	498
25°	1549	1562	1574	1587	1583	714
35°	1343	1359	1382	1403	1396	839
45°	1115	1135	1173	1186	1187	862
55°	860	880	926	933	930	768
65°	579	596	638	637	634	572
75°	292	304	323	325	320	311
85°	55	56	56	56	54	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2153.8	2153.8	2153.8	2153.8	2153.8
2.5°	2134.9	2132.8	2125.8	2123.1	2122.5
5°	2060.1	2055.3	2045.6	2044.5	2045.6
7.5°	1970.8	1965.4	1955.7	1959.5	1964.3
10°	1895.5	1882.0	1878.2	1883.6	1892.8
12.5°	1828.2	1817.4	1814.2	1828.2	1834.7
15°	1764.1	1759.8	1760.9	1772.8	1778.1
17.5°	1708.7	1706.0	1713.0	1722.2	1724.9
20°	1653.3	1658.7	1665.1	1674.8	1678.0
22.5°	1598.9	1609.1	1619.9	1632.8	1628.5
25°	1548.9	1561.8	1574.2	1587.1	1583.3
27.5°	1495.6	1510.6	1527.9	1541.9	1536.5
30°	1444.4	1463.3	1480.0	1497.2	1489.1
32.5°	1393.9	1411.6	1431.5	1452.5	1443.4
35°	1342.7	1358.9	1382.0	1403.0	1396.0
37.5°	1286.3	1306.2	1332.5	1350.8	1346.0
40°	1233.5	1251.8	1283.6	1295.4	1294.3
42.5°	1180.2	1195.3	1228.7	1242.1	1240.0
45°	1115.1	1135.0	1173.2	1186.2	1187.2
47.5°	1057.5	1074.2	1115.1	1125.3	1127.5
50°	991.3	1012.3	1053.2	1065.6	1067.2
52.5°	926.2	948.8	990.8	999.4	1001.0
55°	860.0	880.4	926.2	932.7	930.0
57.5°	790.6	815.3	857.3	860.5	863.2
60°	722.7	744.3	785.2	789.5	783.6
62.5°	649.0	671.1	713.1	714.1	709.3
65°	579.1	595.8	638.3	637.2	634.0
67.5°	505.9	526.3	557.6	558.6	556.0
70°	437.5	451.5	481.7	482.2	475.8
72.5°	363.8	378.9	403.1	399.9	398.3
75°	292.2	304.1	322.9	325.1	319.7
77.5°	226.6	235.2	249.2	247.6	241.6
80°	159.3	166.3	176.5	174.4	167.9
82.5°	101.7	106.0	112.5	109.8	107.1
85°	55.4	55.9	56.5	55.9	54.3
87.5°	20.4	21.0	21.0	20.4	18.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)