

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: P489763

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-1HI-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: P489763
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-LD4-1HI-40-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

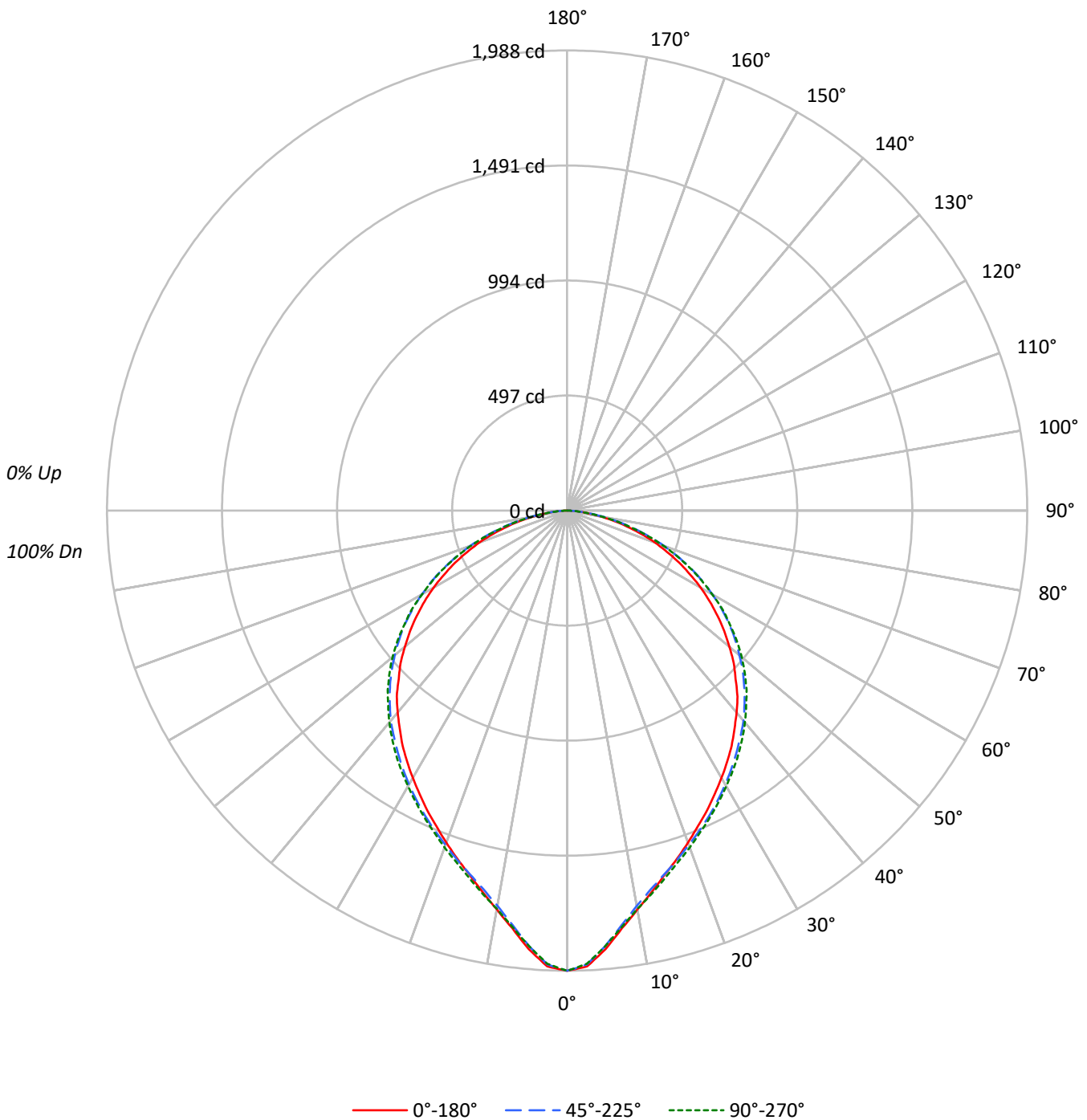
Lumens per Lamp: N/A
Luminaire Lumens: 4618.2 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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: P489763

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-1HI-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°	2675	2675	2675
5°	2569	2550	2550
10°	2391	2369	2387
15°	2268	2264	2286
20°	2185	2201	2218
25°	2123	2157	2170
30°	2072	2123	2136
35°	2036	2096	2117
40°	2000	2081	2099
45°	1959	2061	2085
50°	1915	2035	2062
55°	1862	2006	2014
60°	1795	1950	1946
65°	1702	1876	1863
70°	1589	1749	1728
75°	1403	1550	1534
80°	1139	1263	1201
85°	790	806	775



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.7	3.8
10°-20°	460.2	10.0
20°-30°	669.2	14.5
30°-40°	796.3	17.2
40°-50°	826.9	17.9
50°-60°	749.1	16.2
60°-70°	565.3	12.2
70°-80°	308.0	6.7
80°-90°	67.7	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°	1305.0	28.3
0°-40°	2101.4	45.5
0°-60°	3677.3	79.6
0°-90°	4618.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4618.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1988	1988	1988	1988	1988	
5°	1902	1897	1888	1887	1888	176
15°	1628	1624	1626	1636	1641	460
25°	1430	1442	1453	1465	1462	659
35°	1240	1254	1276	1295	1289	775
45°	1029	1048	1083	1095	1096	796
55°	794	813	855	861	858	709
65°	534	550	589	588	585	528
75°	270	281	298	300	295	287
85°	51	52	52	52	50	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1988.2	1988.2	1988.2	1988.2	1988.2
2.5°	1970.8	1968.8	1962.4	1959.9	1959.4
5°	1901.8	1897.3	1888.3	1887.4	1888.3
7.5°	1819.3	1814.3	1805.4	1808.9	1813.3
10°	1749.7	1737.3	1733.8	1738.8	1747.2
12.5°	1687.6	1677.7	1674.7	1687.6	1693.6
15°	1628.5	1624.5	1625.5	1636.5	1641.4
17.5°	1577.4	1574.9	1581.3	1589.8	1592.3
20°	1526.2	1531.2	1537.1	1546.1	1549.0
22.5°	1476.0	1485.4	1495.4	1507.3	1503.3
25°	1429.8	1441.7	1453.2	1465.1	1461.6
27.5°	1380.6	1394.5	1410.4	1423.3	1418.4
30°	1333.4	1350.8	1366.2	1382.1	1374.7
32.5°	1286.7	1303.1	1321.5	1340.9	1332.4
35°	1239.5	1254.4	1275.8	1295.2	1288.7
37.5°	1187.4	1205.7	1230.1	1247.0	1242.5
40°	1138.7	1155.6	1184.9	1195.8	1194.8
42.5°	1089.5	1103.4	1134.2	1146.6	1144.6
45°	1029.4	1047.8	1083.0	1095.0	1095.9
47.5°	976.2	991.6	1029.4	1038.8	1040.8
50°	915.1	934.5	972.3	983.7	985.2
52.5°	855.0	875.8	914.6	922.5	924.1
55°	793.9	812.7	855.0	861.0	858.5
57.5°	729.8	752.7	791.4	794.4	796.9
60°	667.2	687.1	724.8	728.8	723.3
62.5°	599.2	619.5	658.3	659.2	654.8
65°	534.5	550.0	589.2	588.2	585.2
67.5°	467.0	485.9	514.7	515.7	513.2
70°	403.9	416.8	444.6	445.1	439.2
72.5°	335.9	349.7	372.1	369.1	367.7
75°	269.8	280.7	298.1	300.1	295.1
77.5°	209.2	217.1	230.0	228.5	223.1
80°	147.0	153.5	163.0	161.0	155.0
82.5°	93.9	97.9	103.8	101.4	98.9
85°	51.2	51.6	52.2	51.6	50.2
87.5°	18.9	19.4	19.4	18.9	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)