

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: P489842

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-3LO-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: P489842
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-LD4-3LO-30-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

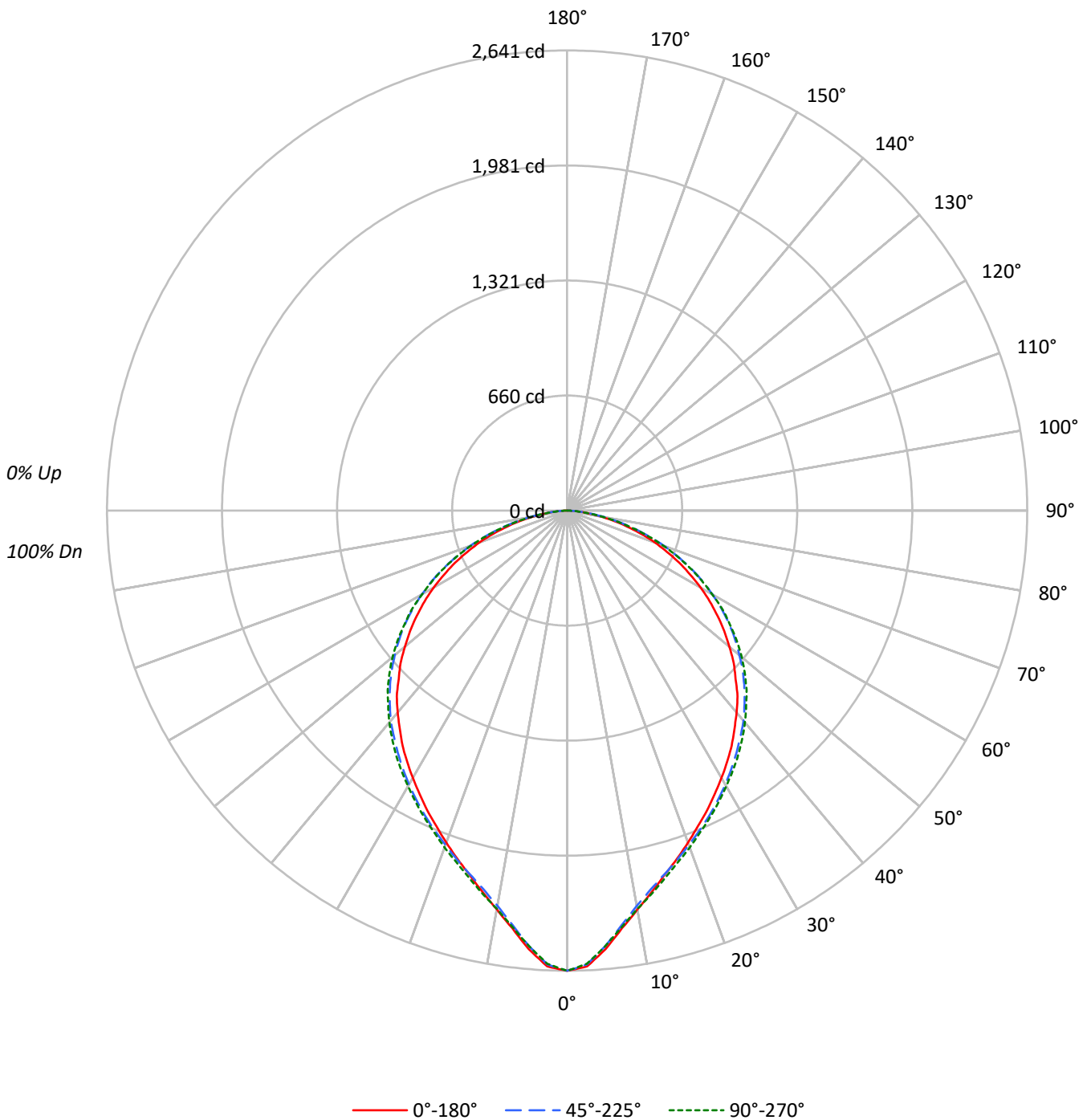
Lumens per Lamp: N/A
Luminaire Lumens: 6135.3 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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

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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°	3554	3554	3554
5°	3412	3388	3388
10°	3176	3147	3171
15°	3014	3008	3037
20°	2903	2924	2947
25°	2820	2866	2883
30°	2752	2820	2837
35°	2705	2784	2812
40°	2657	2765	2788
45°	2602	2738	2770
50°	2545	2704	2740
55°	2474	2664	2675
60°	2385	2591	2586
65°	2261	2492	2475
70°	2111	2324	2295
75°	1863	2059	2038
80°	1513	1678	1595
85°	1050	1070	1028



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.4	3.8
10°-20°	611.3	10.0
20°-30°	889.0	14.5
30°-40°	1057.9	17.2
40°-50°	1098.5	17.9
50°-60°	995.2	16.2
60°-70°	750.9	12.2
70°-80°	409.2	6.7
80°-90°	89.9	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°	1733.8	28.3
0°-40°	2791.7	45.5
0°-60°	4885.3	79.6
0°-90°	6135.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6135.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2641	2641	2641	2641	2641	
5°	2526	2521	2509	2507	2509	234
15°	2164	2158	2160	2174	2181	611
25°	1900	1915	1930	1946	1942	875
35°	1647	1666	1695	1721	1712	1029
45°	1368	1392	1439	1455	1456	1057
55°	1055	1080	1136	1144	1140	942
65°	710	731	783	781	778	702
75°	358	373	396	399	392	382
85°	68	69	69	69	67	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2641.3	2641.3	2641.3	2641.3	2641.3
2.5°	2618.2	2615.6	2607.0	2603.7	2603.0
5°	2526.5	2520.6	2508.7	2507.4	2508.7
7.5°	2416.9	2410.3	2398.5	2403.1	2409.0
10°	2324.5	2308.0	2303.4	2310.0	2321.2
12.5°	2242.0	2228.8	2224.8	2242.0	2250.0
15°	2163.5	2158.2	2159.5	2174.1	2180.6
17.5°	2095.5	2092.2	2100.8	2112.0	2115.3
20°	2027.5	2034.2	2042.1	2054.0	2057.9
22.5°	1960.9	1973.4	1986.6	2002.5	1997.2
25°	1899.5	1915.3	1930.5	1946.4	1941.8
27.5°	1834.1	1852.6	1873.8	1890.9	1884.3
30°	1771.4	1794.5	1815.0	1836.1	1826.2
32.5°	1709.4	1731.2	1755.6	1781.4	1770.1
35°	1646.7	1666.5	1694.9	1720.7	1712.1
37.5°	1577.4	1601.8	1634.1	1656.6	1650.7
40°	1512.7	1535.2	1574.1	1588.6	1587.3
42.5°	1447.4	1465.9	1506.8	1523.3	1520.6
45°	1367.5	1391.9	1438.8	1454.7	1456.0
47.5°	1296.9	1317.4	1367.5	1380.1	1382.7
50°	1215.7	1241.5	1291.6	1306.8	1308.8
52.5°	1135.8	1163.6	1215.1	1225.6	1227.6
55°	1054.7	1079.7	1135.8	1143.8	1140.5
57.5°	969.6	999.9	1051.4	1055.3	1058.6
60°	886.4	912.8	962.9	968.2	961.0
62.5°	796.0	823.0	874.5	875.8	869.9
65°	710.1	730.6	782.7	781.4	777.5
67.5°	620.4	645.5	683.8	685.1	681.8
70°	536.6	553.7	590.7	591.4	583.5
72.5°	446.2	464.6	494.3	490.4	488.4
75°	358.4	372.9	396.0	398.7	392.0
77.5°	277.9	288.4	305.6	303.6	296.3
80°	195.3	203.9	216.5	213.9	205.9
82.5°	124.7	130.0	138.0	134.6	131.3
85°	68.0	68.6	69.3	68.6	66.6
87.5°	25.1	25.8	25.8	25.1	23.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)