

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: P489791

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-2HI-20-120-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: P489791
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-LD4-2HI-20-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

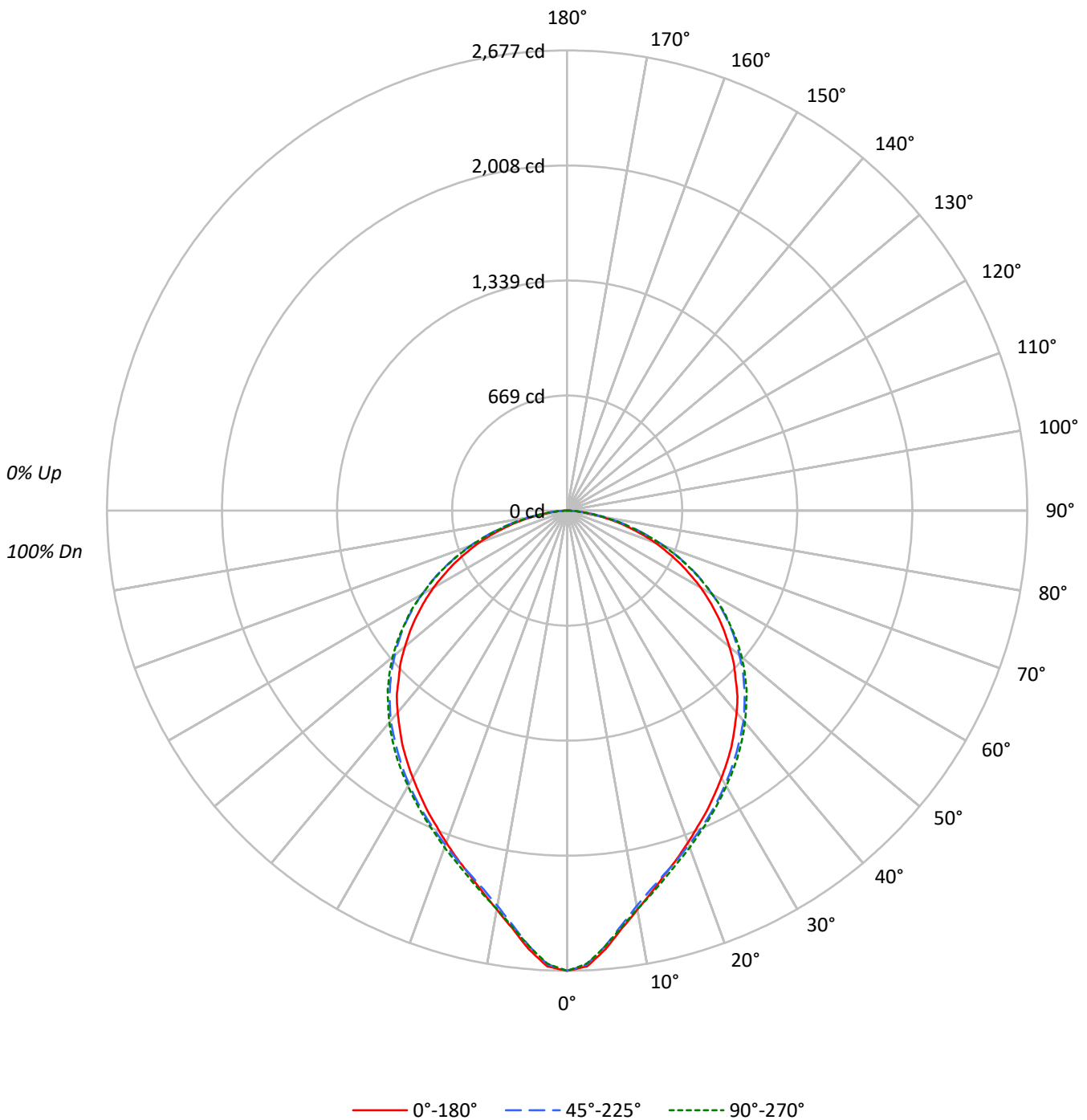
Lumens per Lamp: N/A
Luminaire Lumens: 6218.5 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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	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°	3602	3602	3602
5°	3459	3434	3434
10°	3219	3190	3214
15°	3054	3049	3079
20°	2942	2964	2987
25°	2858	2905	2922
30°	2789	2858	2876
35°	2741	2822	2850
40°	2693	2802	2826
45°	2637	2775	2808
50°	2579	2740	2777
55°	2508	2700	2712
60°	2418	2626	2621
65°	2292	2526	2509
70°	2139	2355	2327
75°	1888	2087	2066
80°	1534	1700	1617
85°	1064	1084	1044



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.6	3.8
10°-20°	619.6	10.0
20°-30°	901.1	14.5
30°-40°	1072.2	17.2
40°-50°	1113.4	17.9
50°-60°	1008.6	16.2
60°-70°	761.1	12.2
70°-80°	414.7	6.7
80°-90°	91.1	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°	1757.3	28.3
0°-40°	2829.5	45.5
0°-60°	4951.5	79.6
0°-90°	6218.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6218.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2677	2677	2677	2677	2677	
5°	2561	2555	2543	2541	2543	238
15°	2193	2188	2189	2204	2210	619
25°	1925	1941	1957	1973	1968	887
35°	1669	1689	1718	1744	1735	1043
45°	1386	1411	1458	1474	1476	1071
55°	1069	1094	1151	1159	1156	954
65°	720	740	793	792	788	712
75°	363	378	401	404	397	387
85°	69	70	70	70	68	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2677.2	2677.2	2677.2	2677.2	2677.2
2.5°	2653.7	2651.1	2642.4	2639.0	2638.3
5°	2560.8	2554.7	2542.7	2541.4	2542.7
7.5°	2449.7	2443.0	2431.0	2435.7	2441.7
10°	2356.1	2339.3	2334.6	2341.3	2352.7
12.5°	2272.4	2259.1	2255.0	2272.4	2280.5
15°	2192.8	2187.5	2188.8	2203.6	2210.2
17.5°	2123.9	2120.6	2129.3	2140.7	2144.0
20°	2055.0	2061.7	2069.8	2081.8	2085.8
22.5°	1987.5	2000.2	2013.6	2029.6	2024.3
25°	1925.3	1941.3	1956.7	1972.7	1968.1
27.5°	1859.0	1877.7	1899.2	1916.6	1909.9
30°	1795.4	1818.9	1839.6	1861.0	1851.0
32.5°	1732.6	1754.7	1779.4	1805.5	1794.1
35°	1669.0	1689.1	1717.9	1744.0	1735.3
37.5°	1598.8	1623.6	1656.3	1679.0	1673.1
40°	1533.3	1556.0	1595.5	1610.2	1608.8
42.5°	1467.0	1485.8	1527.2	1543.9	1541.3
45°	1386.1	1410.8	1458.3	1474.4	1475.7
47.5°	1314.5	1335.3	1386.1	1398.8	1401.4
50°	1232.2	1258.3	1309.2	1324.5	1326.6
52.5°	1151.2	1179.3	1231.5	1242.2	1244.3
55°	1069.0	1094.4	1151.2	1159.3	1156.0
57.5°	982.7	1013.5	1065.7	1069.6	1073.0
60°	898.4	925.2	976.0	981.3	974.0
62.5°	806.8	834.2	886.4	887.7	881.7
65°	719.8	740.5	793.4	792.0	788.0
67.5°	628.8	654.2	693.0	694.4	691.1
70°	543.8	561.2	598.7	599.4	591.4
72.5°	452.2	470.9	501.0	497.0	495.0
75°	363.2	378.0	401.4	404.1	397.4
77.5°	281.6	292.3	309.7	307.7	300.3
80°	198.0	206.7	219.4	216.8	208.7
82.5°	126.4	131.8	139.8	136.5	133.1
85°	68.9	69.5	70.2	69.5	67.6
87.5°	25.4	26.1	26.1	25.4	23.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)