

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: P488844

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-3STD-27-120-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: P488844
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-12-4-INS-P12125-LD4-3STD-27-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

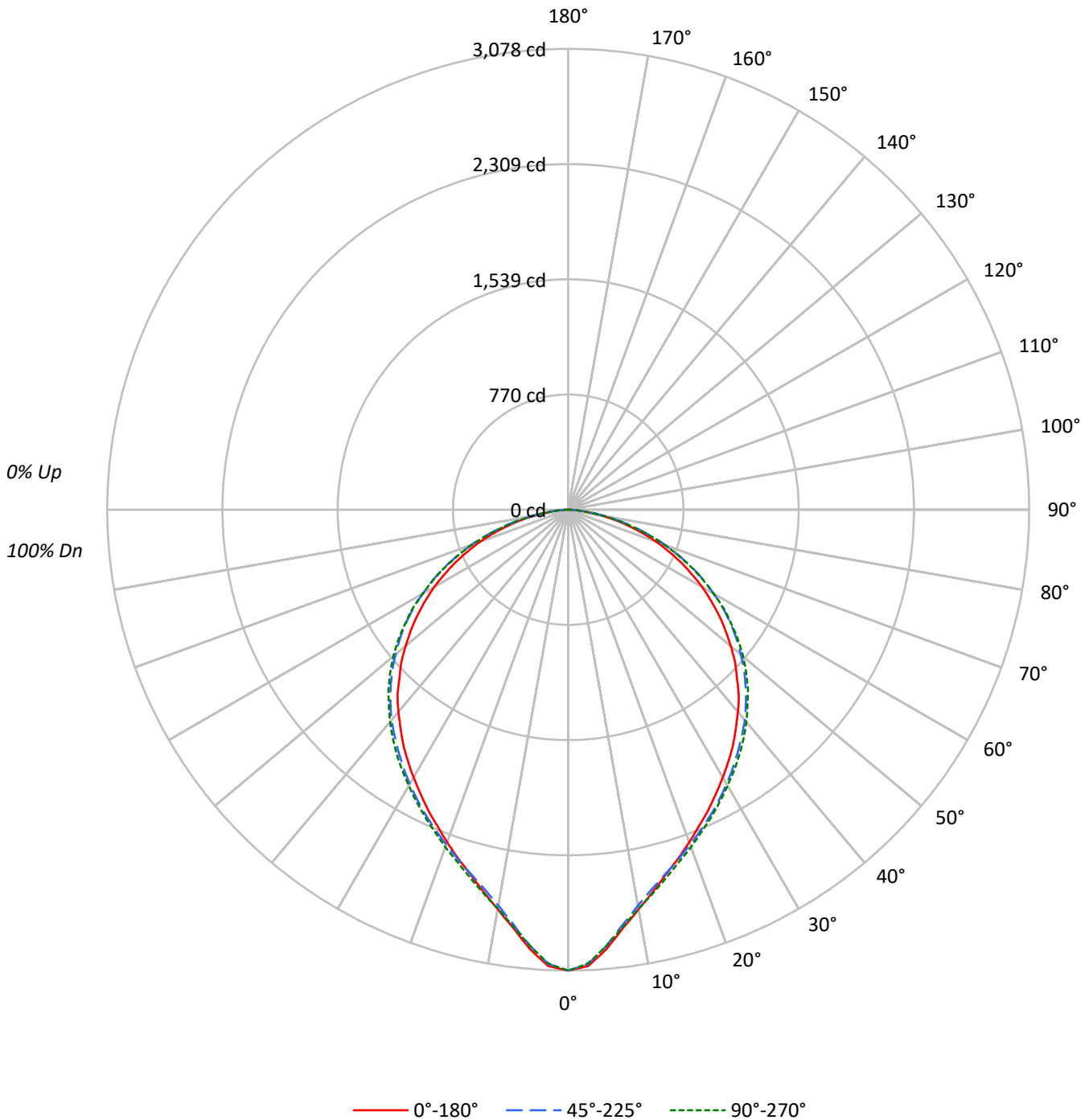
Lumens per Lamp: N/A
Luminaire Lumens: 7149.6 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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°	8283	8283	8283
5°	7953	7897	7897
10°	7402	7335	7391
15°	7024	7011	7079
20°	6766	6815	6867
25°	6572	6680	6719
30°	6414	6572	6613
35°	6304	6488	6554
40°	6192	6444	6498
45°	6065	6381	6457
50°	5931	6301	6385
55°	5766	6210	6235
60°	5559	6039	6027
65°	5269	5808	5769
70°	4920	5416	5349
75°	4342	4798	4750
80°	3527	3910	3718
85°	2445	2492	2399



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.0	3.8
10°-20°	712.4	10.0
20°-30°	1036.0	14.5
30°-40°	1232.8	17.2
40°-50°	1280.1	17.9
50°-60°	1159.7	16.2
60°-70°	875.1	12.2
70°-80°	476.8	6.7
80°-90°	104.8	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°	2020.4	28.3
0°-40°	3253.2	45.5
0°-60°	5692.9	79.6
0°-90°	7149.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7149.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3078	3078	3078	3078	3078	
5°	2944	2937	2923	2922	2923	273
15°	2521	2515	2517	2534	2541	712
25°	2214	2232	2250	2268	2263	1020
35°	1919	1942	1975	2005	1995	1200
45°	1594	1622	1677	1695	1697	1232
55°	1229	1258	1324	1333	1329	1097
65°	828	851	912	911	906	818
75°	418	435	462	465	457	445
85°	79	80	81	80	78	100
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3078.0	3078.0	3078.0	3078.0	3078.0
2.5°	3051.1	3048.0	3038.0	3034.1	3033.4
5°	2944.2	2937.3	2923.4	2921.9	2923.4
7.5°	2816.5	2808.8	2795.0	2800.4	2807.3
10°	2708.8	2689.6	2684.2	2691.9	2705.0
12.5°	2612.7	2597.3	2592.7	2612.7	2621.9
15°	2521.1	2515.0	2516.6	2533.5	2541.1
17.5°	2442.0	2438.1	2448.1	2461.2	2465.0
20°	2362.7	2370.4	2379.7	2393.5	2398.1
22.5°	2285.1	2299.6	2315.1	2333.5	2327.4
25°	2213.5	2232.0	2249.7	2268.1	2262.8
27.5°	2137.4	2158.9	2183.5	2203.5	2195.8
30°	2064.3	2091.2	2115.1	2139.7	2128.2
32.5°	1992.0	2017.4	2045.8	2075.9	2062.8
35°	1918.9	1942.0	1975.1	2005.1	1995.1
37.5°	1838.2	1866.6	1904.3	1930.5	1923.6
40°	1762.8	1789.0	1834.3	1851.3	1849.7
42.5°	1686.7	1708.2	1755.9	1775.1	1772.0
45°	1593.6	1622.1	1676.7	1695.2	1696.7
47.5°	1511.3	1535.2	1593.6	1608.2	1611.3
50°	1416.7	1446.7	1505.2	1522.8	1525.2
52.5°	1323.6	1355.9	1415.9	1428.2	1430.6
55°	1229.0	1258.2	1323.6	1332.9	1329.0
57.5°	1129.8	1165.2	1225.2	1229.8	1233.7
60°	1032.9	1063.7	1122.1	1128.3	1119.8
62.5°	927.6	959.1	1019.1	1020.6	1013.7
65°	827.5	851.4	912.1	910.6	906.0
67.5°	722.9	752.2	796.8	798.3	794.5
70°	625.3	645.3	688.4	689.1	679.9
72.5°	519.9	541.5	576.0	571.5	569.2
75°	417.6	434.6	461.5	464.6	456.9
77.5°	323.8	336.1	356.1	353.8	345.3
80°	227.6	237.6	252.3	249.2	239.9
82.5°	145.3	151.5	160.8	156.9	153.0
85°	79.2	80.0	80.7	80.0	77.7
87.5°	29.2	30.0	30.0	29.2	26.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)