

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: P488780

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-1STD-50-120-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: P488780
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-LD4-1STD-50-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

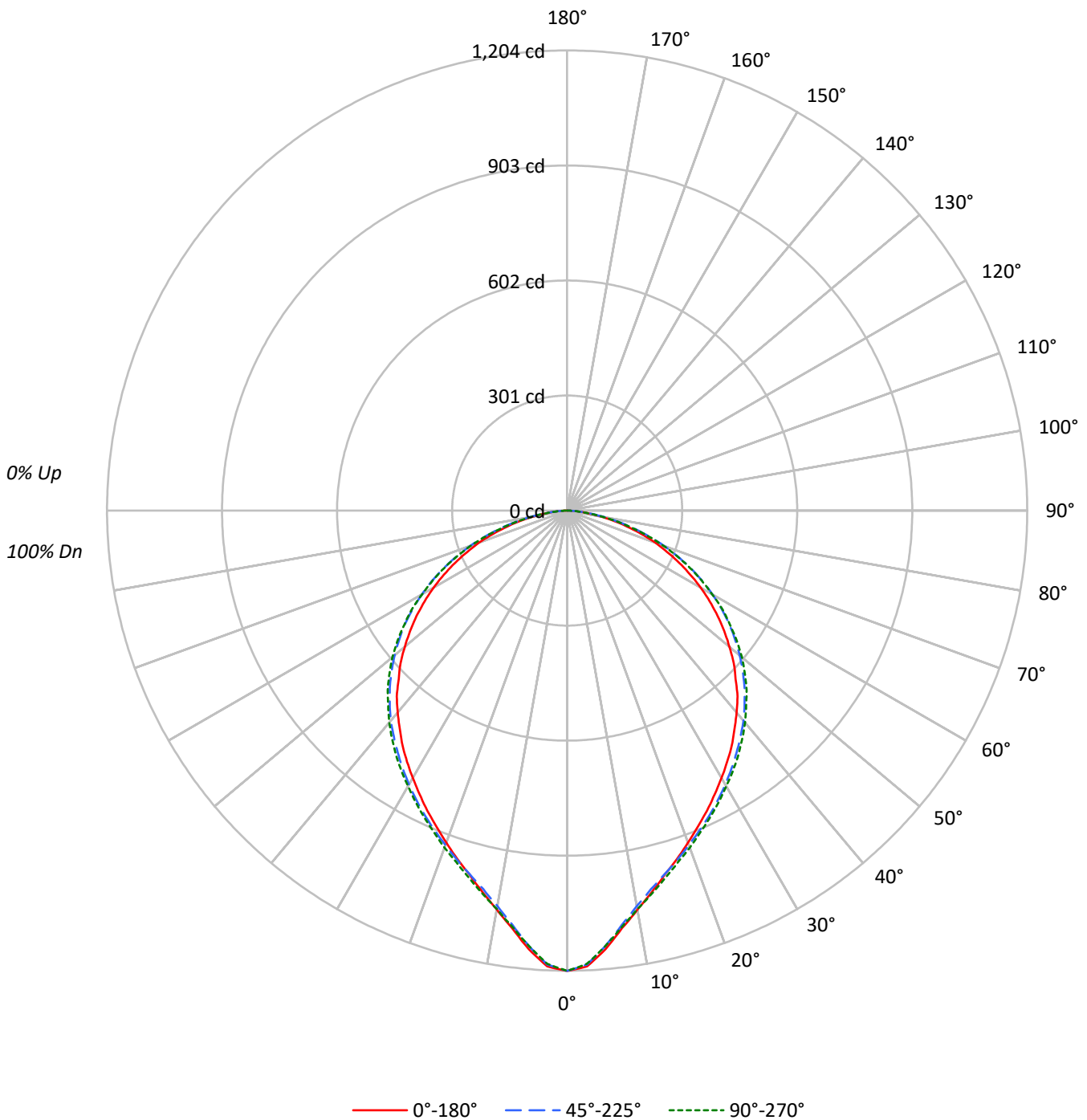
Lumens per Lamp: N/A
Luminaire Lumens: 2797.7 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	3241	3241	3241
5°	3112	3090	3090
10°	2896	2870	2892
15°	2748	2744	2770
20°	2648	2667	2687
25°	2572	2614	2629
30°	2510	2572	2588
35°	2467	2539	2565
40°	2423	2522	2543
45°	2373	2497	2527
50°	2321	2466	2498
55°	2256	2430	2440
60°	2175	2363	2358
65°	2062	2273	2257
70°	1925	2120	2094
75°	1699	1878	1859
80°	1381	1530	1455
85°	957	976	939



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.4	3.8
10°-20°	278.8	10.0
20°-30°	405.4	14.5
30°-40°	482.4	17.2
40°-50°	500.9	17.9
50°-60°	453.8	16.2
60°-70°	342.4	12.2
70°-80°	186.6	6.7
80°-90°	41.0	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°	790.6	28.3
0°-40°	1273.0	45.5
0°-60°	2227.7	79.6
0°-90°	2797.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2797.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1204	1204	1204	1204	1204	
5°	1152	1149	1144	1143	1144	107
15°	986	984	985	991	994	278
25°	866	873	880	888	885	399
35°	751	760	773	785	781	469
45°	624	635	656	663	664	482
55°	481	492	518	522	520	429
65°	324	333	357	356	354	320
75°	163	170	181	182	179	174
85°	31	31	32	31	30	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1204.5	1204.5	1204.5	1204.5	1204.5
2.5°	1193.9	1192.7	1188.8	1187.3	1187.0
5°	1152.1	1149.4	1144.0	1143.4	1144.0
7.5°	1102.1	1099.1	1093.7	1095.8	1098.5
10°	1060.0	1052.5	1050.3	1053.4	1058.5
12.5°	1022.4	1016.3	1014.5	1022.4	1026.0
15°	986.5	984.1	984.8	991.4	994.4
17.5°	955.6	954.1	958.0	963.1	964.6
20°	924.6	927.6	931.2	936.6	938.4
22.5°	894.2	899.9	905.9	913.1	910.7
25°	866.2	873.4	880.3	887.5	885.4
27.5°	836.4	844.8	854.4	862.3	859.2
30°	807.8	818.3	827.6	837.3	832.8
32.5°	779.5	789.4	800.6	812.3	807.2
35°	750.9	759.9	772.9	784.6	780.7
37.5°	719.3	730.4	745.2	755.4	752.7
40°	689.8	700.0	717.8	724.4	723.8
42.5°	660.0	668.4	687.1	694.6	693.4
45°	623.6	634.7	656.1	663.3	663.9
47.5°	591.4	600.7	623.6	629.3	630.5
50°	554.4	566.1	589.0	595.9	596.8
52.5°	517.9	530.6	554.1	558.9	559.8
55°	480.9	492.4	517.9	521.6	520.1
57.5°	442.1	456.0	479.4	481.2	482.7
60°	404.2	416.2	439.1	441.5	438.2
62.5°	363.0	375.3	398.8	399.4	396.7
65°	323.8	333.2	356.9	356.3	354.5
67.5°	282.9	294.3	311.8	312.4	310.9
70°	244.7	252.5	269.4	269.7	266.1
72.5°	203.5	211.9	225.4	223.6	222.7
75°	163.4	170.0	180.6	181.8	178.8
77.5°	126.7	131.5	139.3	138.5	135.1
80°	89.1	93.0	98.7	97.5	93.9
82.5°	56.9	59.3	62.9	61.4	59.9
85°	31.0	31.3	31.6	31.3	30.4
87.5°	11.4	11.7	11.7	11.4	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)