

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: P488788

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-2HI-35-120-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: P488788
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-LD4-2HI-35-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

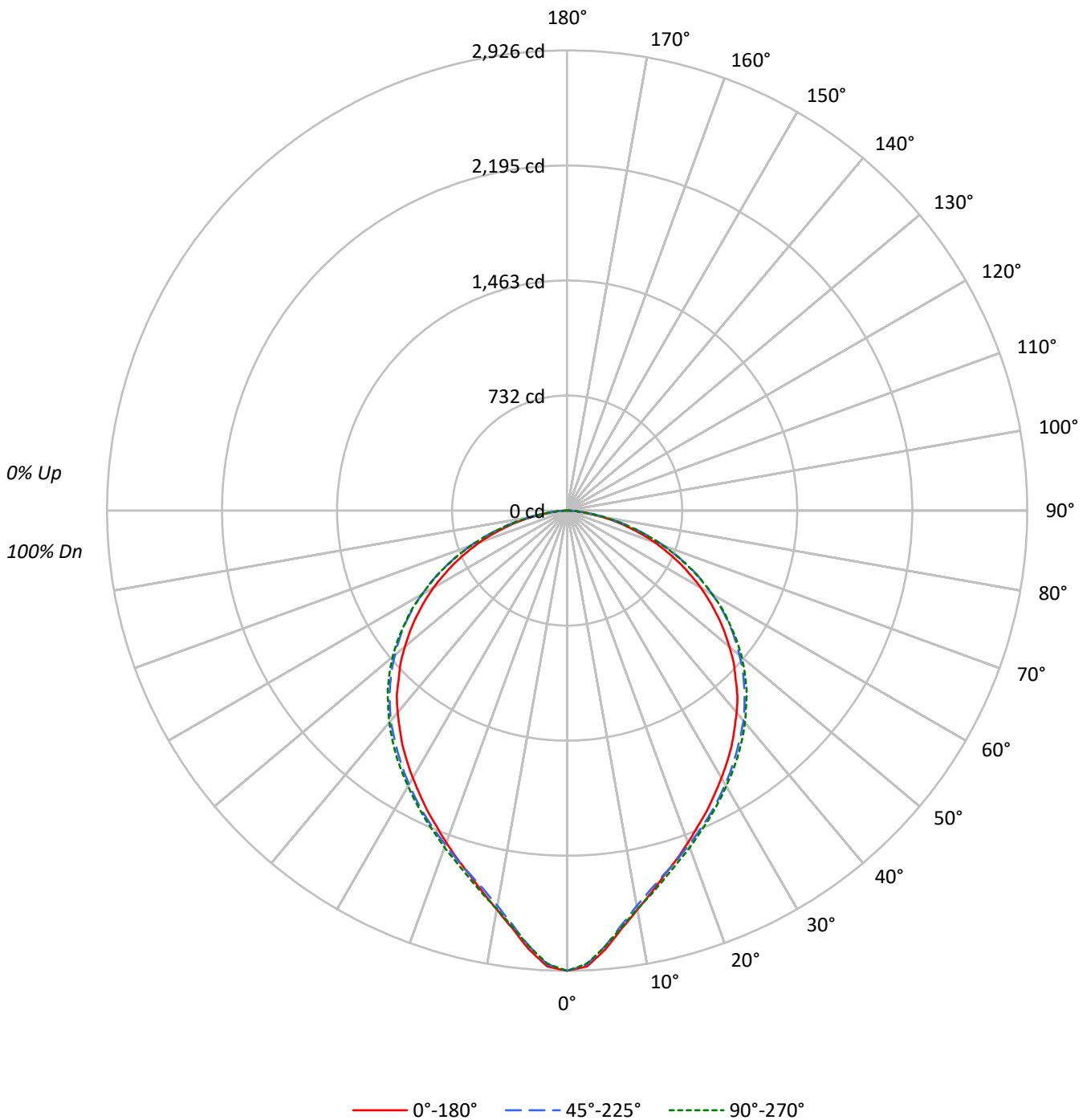
Lumens per Lamp: N/A
Luminaire Lumens: 6796.9 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P488788

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-2HI-35-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P488788

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-2HI-35-120-EDD-90

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°	7874	7874	7874
5°	7561	7507	7507
10°	7037	6973	7027
15°	6677	6665	6730
20°	6432	6479	6529
25°	6248	6350	6387
30°	6098	6248	6287
35°	5993	6168	6231
40°	5887	6126	6177
45°	5766	6066	6138
50°	5638	5990	6070
55°	5482	5903	5928
60°	5285	5741	5730
65°	5009	5521	5484
70°	4677	5149	5086
75°	4128	4561	4515
80°	3353	3716	3535
85°	2325	2371	2279



TEST NUMBER: P488788

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-2HI-35-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.6	3.8
10°-20°	677.3	10.0
20°-30°	984.9	14.5
30°-40°	1172.0	17.2
40°-50°	1216.9	17.9
50°-60°	1102.5	16.2
60°-70°	831.9	12.2
70°-80°	453.3	6.7
80°-90°	99.6	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°	1920.7	28.3
0°-40°	3092.7	45.5
0°-60°	5412.1	79.6
0°-90°	6796.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6796.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2926	2926	2926	2926	2926	
5°	2799	2792	2779	2778	2779	260
15°	2397	2391	2392	2408	2416	677
25°	2104	2122	2139	2156	2151	970
35°	1824	1846	1878	1906	1897	1141
45°	1515	1542	1594	1612	1613	1171
55°	1168	1196	1258	1267	1264	1043
65°	787	809	867	866	861	778
75°	397	413	439	442	434	423
85°	75	76	77	76	74	95
90°	0	0	0	0	0	



TEST NUMBER: P488788

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-2HI-35-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2926.2	2926.2	2926.2	2926.2	2926.2
2.5°	2900.6	2897.6	2888.1	2884.5	2883.7
5°	2798.9	2792.4	2779.2	2777.8	2779.2
7.5°	2677.6	2670.2	2657.1	2662.2	2668.8
10°	2575.2	2556.9	2551.8	2559.1	2571.5
12.5°	2483.8	2469.2	2464.8	2483.8	2492.6
15°	2396.8	2390.9	2392.4	2408.5	2415.8
17.5°	2321.5	2317.8	2327.3	2339.8	2343.4
20°	2246.2	2253.5	2262.3	2275.4	2279.8
22.5°	2172.3	2186.2	2200.9	2218.4	2212.5
25°	2104.3	2121.9	2138.7	2156.2	2151.1
27.5°	2031.9	2052.4	2075.8	2094.8	2087.5
30°	1962.4	1988.1	2010.7	2034.1	2023.2
32.5°	1893.8	1917.9	1944.9	1973.4	1961.0
35°	1824.3	1846.2	1877.7	1906.2	1896.7
37.5°	1747.5	1774.6	1810.4	1835.2	1828.7
40°	1675.9	1700.7	1743.9	1760.0	1758.5
42.5°	1603.5	1624.0	1669.3	1687.5	1684.6
45°	1515.0	1542.1	1593.9	1611.5	1613.0
47.5°	1436.8	1459.5	1515.0	1528.9	1531.8
50°	1346.8	1375.4	1430.9	1447.7	1449.9
52.5°	1258.3	1289.0	1346.1	1357.8	1360.0
55°	1168.4	1196.2	1258.3	1267.2	1263.5
57.5°	1074.1	1107.7	1164.8	1169.1	1172.8
60°	981.9	1011.2	1066.8	1072.6	1064.6
62.5°	881.8	911.8	968.8	970.3	963.7
65°	786.7	809.4	867.1	865.7	861.3
67.5°	687.3	715.1	757.5	758.9	755.3
70°	594.4	613.4	654.4	655.1	646.4
72.5°	494.3	514.7	547.6	543.3	541.1
75°	397.0	413.1	438.7	441.7	434.3
77.5°	307.8	319.5	338.5	336.4	328.3
80°	216.4	225.9	239.8	236.9	228.1
82.5°	138.2	144.1	152.8	149.2	145.5
85°	75.3	76.0	76.8	76.0	73.8
87.5°	27.8	28.5	28.5	27.8	25.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)