

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: P488789

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-2HI-35-120-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: P488789
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
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

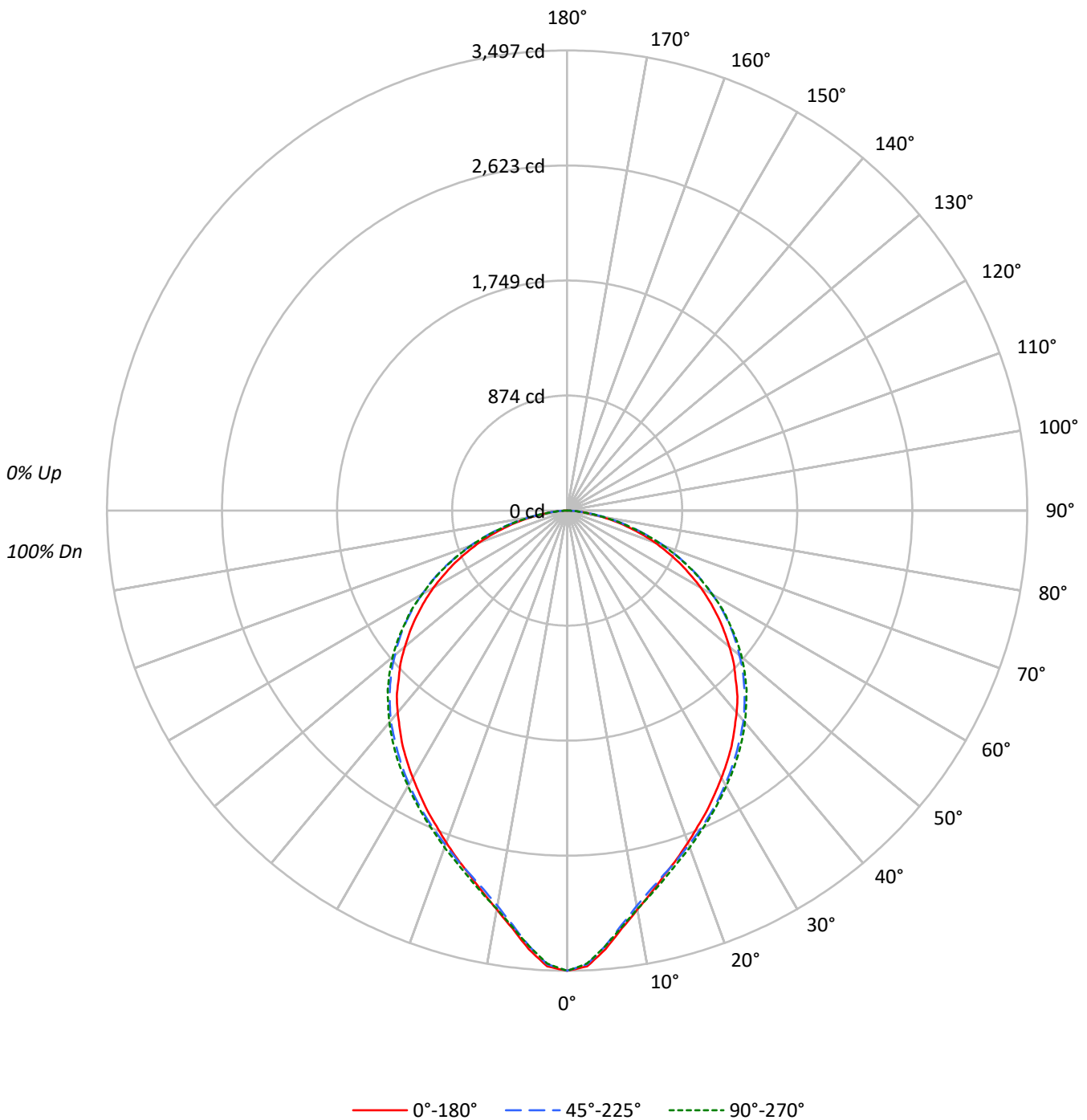
Lumens per Lamp: N/A
Luminaire Lumens: 8123.0 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P488789

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

Luminous Intensity Polar Plot





TEST NUMBER: P488789

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

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°	9411	9411	9411
5°	9036	8972	8972
10°	8410	8333	8398
15°	7980	7965	8043
20°	7687	7742	7802
25°	7467	7589	7633
30°	7287	7467	7513
35°	7162	7372	7446
40°	7035	7321	7382
45°	6890	7249	7336
50°	6738	7159	7254
55°	6551	7055	7084
60°	6316	6861	6847
65°	5987	6599	6554
70°	5589	6153	6078
75°	4933	5451	5397
80°	4007	4441	4224
85°	2779	2831	2723



TEST NUMBER: P488789

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.0	3.8
10°-20°	809.4	10.0
20°-30°	1177.0	14.5
30°-40°	1400.6	17.2
40°-50°	1454.4	17.9
50°-60°	1317.6	16.2
60°-70°	994.2	12.2
70°-80°	541.7	6.7
80°-90°	119.0	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°	2295.5	28.3
0°-40°	3696.1	45.5
0°-60°	6468.0	79.6
0°-90°	8123.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8123.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3497	3497	3497	3497	3497	
5°	3345	3337	3321	3320	3321	310
15°	2864	2857	2859	2878	2887	808
25°	2515	2536	2556	2577	2571	1159
35°	2180	2206	2244	2278	2267	1363
45°	1811	1843	1905	1926	1928	1400
55°	1396	1430	1504	1514	1510	1247
65°	940	967	1036	1035	1029	929
75°	474	494	524	528	519	505
85°	90	91	92	91	88	114
90°	0	0	0	0	0	



TEST NUMBER: P488789

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3497.1	3497.1	3497.1	3497.1	3497.1
2.5°	3466.5	3463.0	3451.6	3447.2	3446.3
5°	3345.0	3337.2	3321.4	3319.7	3321.4
7.5°	3200.0	3191.2	3175.5	3181.6	3189.5
10°	3077.6	3055.8	3049.6	3058.4	3073.3
12.5°	2968.4	2950.9	2945.6	2968.4	2978.9
15°	2864.4	2857.4	2859.2	2878.4	2887.1
17.5°	2774.4	2770.0	2781.4	2796.3	2800.7
20°	2684.4	2693.2	2703.6	2719.4	2724.6
22.5°	2596.2	2612.7	2630.3	2651.2	2644.2
25°	2514.9	2535.8	2556.0	2576.9	2570.8
27.5°	2428.4	2452.8	2480.8	2503.5	2494.8
30°	2345.3	2375.9	2403.0	2431.0	2417.9
32.5°	2263.2	2292.1	2324.4	2358.5	2343.6
35°	2180.2	2206.4	2244.0	2278.1	2266.7
37.5°	2088.5	2120.8	2163.6	2193.3	2185.5
40°	2002.8	2032.5	2084.1	2103.3	2101.5
42.5°	1916.3	1940.8	1995.0	2016.8	2013.3
45°	1810.6	1842.9	1904.9	1926.0	1927.7
47.5°	1717.1	1744.2	1810.6	1827.2	1830.7
50°	1609.6	1643.7	1710.1	1730.2	1732.8
52.5°	1503.8	1540.5	1608.7	1622.7	1625.4
55°	1396.4	1429.6	1503.8	1514.4	1510.0
57.5°	1283.7	1323.9	1392.0	1397.2	1401.6
60°	1173.5	1208.5	1274.9	1281.9	1272.3
62.5°	1053.9	1089.7	1157.8	1159.6	1151.7
65°	940.2	967.3	1036.3	1034.6	1029.3
67.5°	821.4	854.6	905.3	907.0	902.7
70°	710.4	733.1	782.1	783.0	772.5
72.5°	590.7	615.2	654.5	649.3	646.7
75°	474.5	493.7	524.3	527.8	519.1
77.5°	367.9	381.9	404.6	402.0	392.3
80°	258.6	270.0	286.6	283.1	272.6
82.5°	165.1	172.2	182.6	178.3	173.9
85°	90.0	90.8	91.7	90.8	88.2
87.5°	33.2	34.1	34.1	33.2	30.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)