

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: P488820

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-3HI-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: P488820
 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-LD4-3HI-27-120-EDD-90
 Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
 Light Source: -
 Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

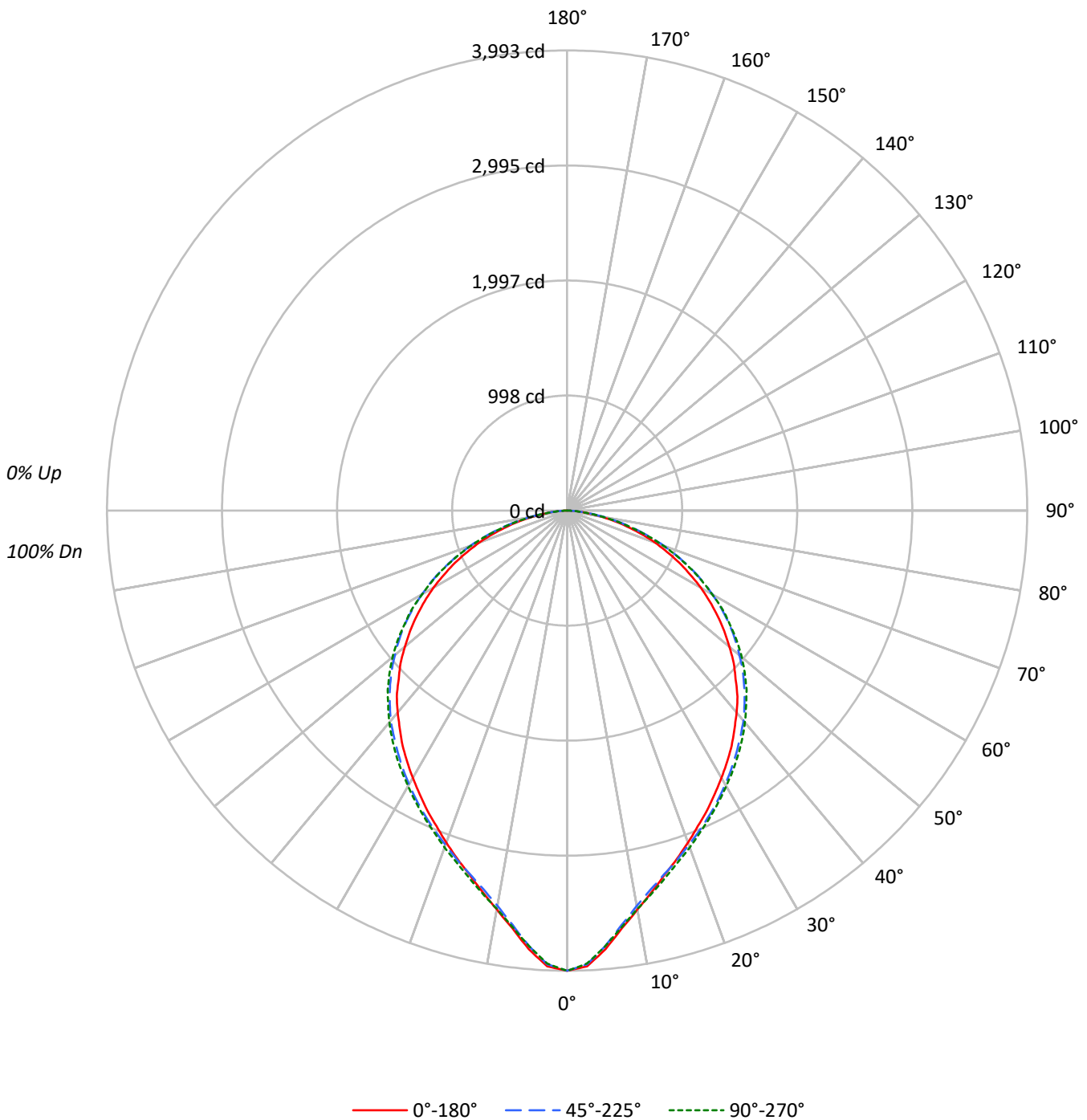
Lumens per Lamp: N/A
 Luminaire Lumens: 9275.1 lumens
 Efficiency: N/A
 Efficacy: 71.6 lumens/watt
 Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
 Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
 CIE Type: Direct

Input Watts (W): 129.6
 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: P488820

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-3HI-27-120-EDD-90

Luminous Intensity Polar Plot



TEST NUMBER: P488820

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-3HI-27-120-EDD-90

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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°	10745	10745	10745
5°	10317	10245	10245
10°	9602	9515	9589
15°	9112	9095	9184
20°	8777	8840	8909
25°	8526	8666	8716
30°	8321	8526	8579
35°	8178	8417	8502
40°	8033	8359	8429
45°	7868	8278	8377
50°	7694	8174	8283
55°	7480	8056	8089
60°	7212	7835	7819
65°	6836	7535	7484
70°	6382	7026	6940
75°	5633	6225	6162
80°	4576	5072	4824
85°	3174	3233	3112



TEST NUMBER: P488820

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-3HI-27-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.8	3.8
10°-20°	924.2	10.0
20°-30°	1344.0	14.5
30°-40°	1599.3	17.2
40°-50°	1660.6	17.9
50°-60°	1504.4	16.2
60°-70°	1135.2	12.2
70°-80°	618.6	6.7
80°-90°	135.9	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°	2621.0	28.3
0°-40°	4220.3	45.5
0°-60°	7385.4	79.6
0°-90°	9275.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9275.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3993	3993	3993	3993	3993	
5°	3820	3810	3792	3790	3792	354
15°	3271	3263	3265	3287	3297	923
25°	2872	2896	2918	2942	2936	1323
35°	2489	2519	2562	2601	2588	1556
45°	2067	2104	2175	2199	2201	1598
55°	1594	1632	1717	1729	1724	1424
65°	1074	1104	1183	1181	1175	1061
75°	542	564	599	603	593	577
85°	103	104	105	104	101	130
90°	0	0	0	0	0	

TEST NUMBER: P488820

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-3HI-27-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3993.1	3993.1	3993.1	3993.1	3993.1
2.5°	3958.1	3954.1	3941.2	3936.2	3935.2
5°	3819.5	3810.5	3792.5	3790.5	3792.5
7.5°	3653.8	3643.8	3625.9	3632.9	3641.9
10°	3514.1	3489.2	3482.2	3492.2	3509.1
12.5°	3389.4	3369.4	3363.4	3389.4	3401.4
15°	3270.6	3262.7	3264.7	3286.7	3296.6
17.5°	3167.9	3162.9	3175.9	3192.9	3197.9
20°	3065.1	3075.1	3087.1	3105.1	3111.0
22.5°	2964.4	2983.3	3003.3	3027.2	3019.3
25°	2871.6	2895.5	2918.5	2942.4	2935.5
27.5°	2772.8	2800.7	2832.7	2858.6	2848.6
30°	2678.0	2712.9	2743.9	2775.8	2760.8
32.5°	2584.3	2617.2	2654.1	2693.0	2676.0
35°	2489.4	2519.4	2562.3	2601.2	2588.2
37.5°	2384.7	2421.6	2470.4	2504.4	2495.5
40°	2286.9	2320.8	2379.7	2401.6	2399.6
42.5°	2188.1	2216.1	2277.9	2302.8	2298.9
45°	2067.4	2104.3	2175.1	2199.1	2201.1
47.5°	1960.6	1991.6	2067.4	2086.3	2090.3
50°	1837.9	1876.8	1952.6	1975.5	1978.6
52.5°	1717.1	1759.0	1836.9	1852.8	1855.9
55°	1594.4	1632.3	1717.1	1729.2	1724.2
57.5°	1465.7	1511.6	1589.5	1595.4	1600.4
60°	1340.0	1379.9	1455.7	1463.7	1452.8
62.5°	1203.3	1244.2	1322.1	1324.0	1315.0
65°	1073.6	1104.5	1183.3	1181.4	1175.3
67.5°	937.9	975.8	1033.7	1035.7	1030.7
70°	811.2	837.1	893.0	894.0	882.1
72.5°	674.5	702.4	747.3	741.3	738.4
75°	541.8	563.8	598.7	602.7	592.7
77.5°	420.1	436.0	462.0	459.0	448.0
80°	295.3	308.3	327.3	323.3	311.3
82.5°	188.5	196.6	208.6	203.6	198.5
85°	102.8	103.7	104.7	103.7	100.8
87.5°	37.9	38.9	38.9	37.9	34.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)