

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: P488847

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-3STD-30-120-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: P488847
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-30-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

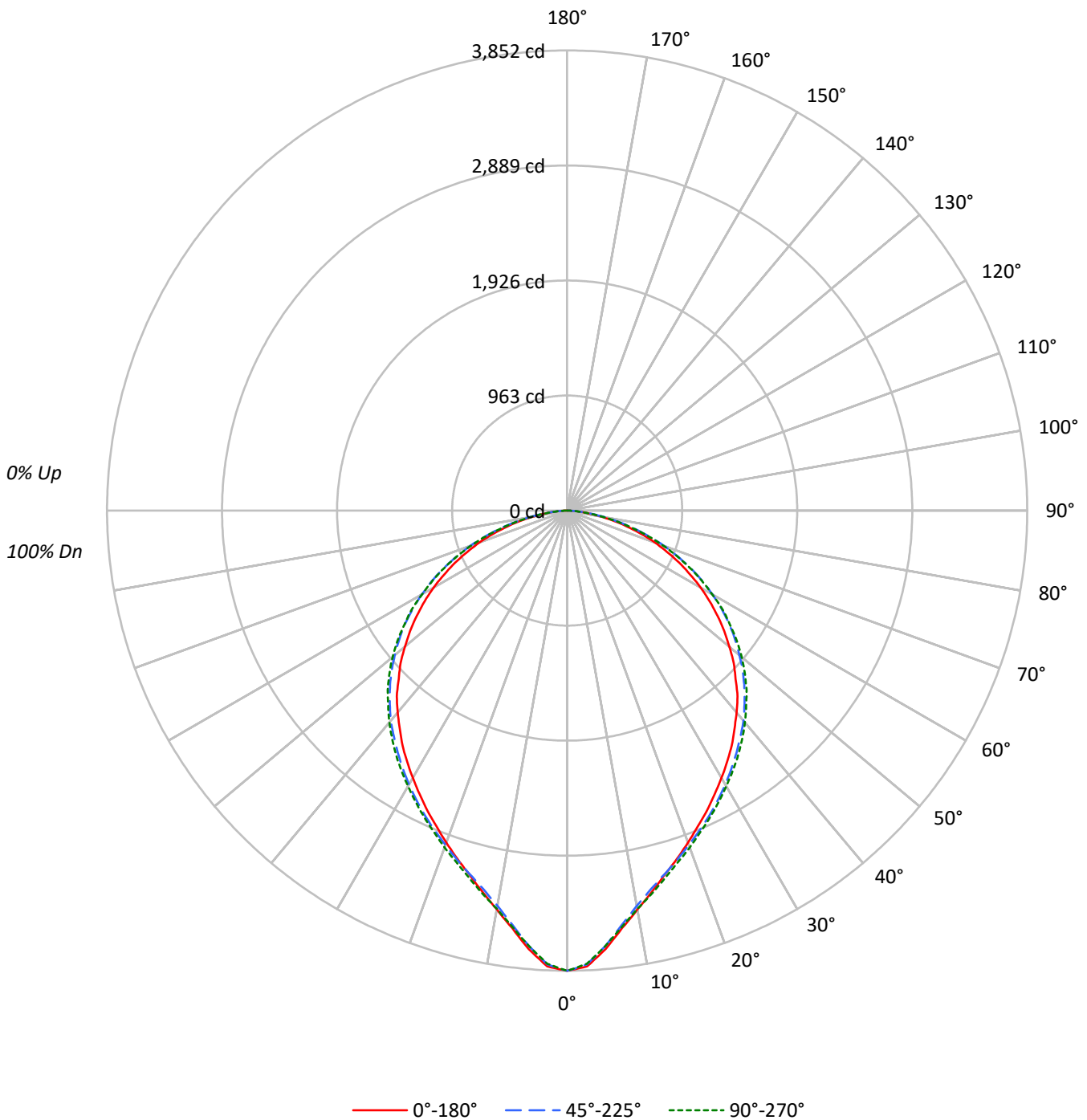
Lumens per Lamp: N/A
Luminaire Lumens: 8948.6 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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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CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-3STD-30-120-EDD

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°	10367	10367	10367
5°	9954	9884	9884
10°	9264	9180	9251
15°	8791	8775	8861
20°	8468	8529	8595
25°	8226	8361	8409
30°	8028	8226	8277
35°	7890	8121	8203
40°	7751	8065	8133
45°	7591	7986	8082
50°	7423	7887	7992
55°	7217	7773	7804
60°	6958	7559	7543
65°	6595	7270	7221
70°	6157	6779	6696
75°	5435	6005	5945
80°	4415	4894	4654
85°	3063	3122	3001



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.4	3.8
10°-20°	891.7	10.0
20°-30°	1296.7	14.5
30°-40°	1543.0	17.2
40°-50°	1602.2	17.9
50°-60°	1451.5	16.2
60°-70°	1095.3	12.2
70°-80°	596.8	6.7
80°-90°	131.2	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°	2528.8	28.3
0°-40°	4071.8	45.5
0°-60°	7125.4	79.6
0°-90°	8948.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8948.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3852	3852	3852	3852	3852	
5°	3685	3676	3659	3657	3659	342
15°	3156	3148	3150	3171	3180	891
25°	2770	2794	2816	2839	2832	1277
35°	2402	2431	2472	2510	2497	1502
45°	1995	2030	2098	2122	2124	1542
55°	1538	1575	1657	1668	1664	1373
65°	1036	1066	1142	1140	1134	1024
75°	523	544	578	582	572	557
85°	99	100	101	100	97	125
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3852.5	3852.5	3852.5	3852.5	3852.5
2.5°	3818.8	3815.0	3802.4	3797.6	3796.6
5°	3685.0	3676.3	3659.0	3657.1	3659.0
7.5°	3525.2	3515.5	3498.3	3505.0	3513.7
10°	3390.4	3366.4	3359.6	3369.2	3385.6
12.5°	3270.1	3250.8	3245.0	3270.1	3281.7
15°	3155.5	3147.8	3149.8	3171.0	3180.5
17.5°	3056.4	3051.6	3064.1	3080.5	3085.3
20°	2957.2	2966.9	2978.4	2995.8	3001.5
22.5°	2860.0	2878.3	2897.6	2920.7	2913.0
25°	2770.5	2793.6	2815.8	2838.8	2832.1
27.5°	2675.2	2702.1	2733.0	2758.0	2748.3
30°	2583.7	2617.4	2647.3	2678.0	2663.6
32.5°	2493.3	2525.0	2560.6	2598.2	2581.8
35°	2401.8	2430.7	2472.1	2509.6	2497.1
37.5°	2300.7	2336.3	2383.5	2416.2	2407.6
40°	2206.4	2239.1	2295.9	2317.1	2315.1
42.5°	2111.1	2138.1	2197.7	2221.8	2217.9
45°	1994.6	2030.2	2098.5	2121.7	2123.6
47.5°	1891.6	1921.5	1994.6	2012.9	2016.7
50°	1773.2	1810.8	1883.9	1906.0	1909.0
52.5°	1656.7	1697.1	1772.2	1787.6	1790.5
55°	1538.3	1574.8	1656.7	1668.3	1663.5
57.5°	1414.1	1458.4	1533.5	1539.3	1544.1
60°	1292.8	1331.3	1404.5	1412.2	1401.6
62.5°	1161.0	1200.4	1275.5	1277.4	1268.7
65°	1035.8	1065.6	1141.7	1139.8	1134.0
67.5°	904.8	941.4	997.3	999.2	994.4
70°	782.6	807.6	861.6	862.5	851.0
72.5°	650.8	677.7	721.0	715.3	712.4
75°	522.7	543.9	577.6	581.5	571.8
77.5°	405.3	420.7	445.7	442.8	432.2
80°	284.9	297.4	315.8	311.9	300.3
82.5°	181.9	189.7	201.2	196.4	191.6
85°	99.2	100.1	101.1	100.1	97.2
87.5°	36.6	37.6	37.6	36.6	33.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)