

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: P488851

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-3STD-40-120-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: P488851
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-40-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

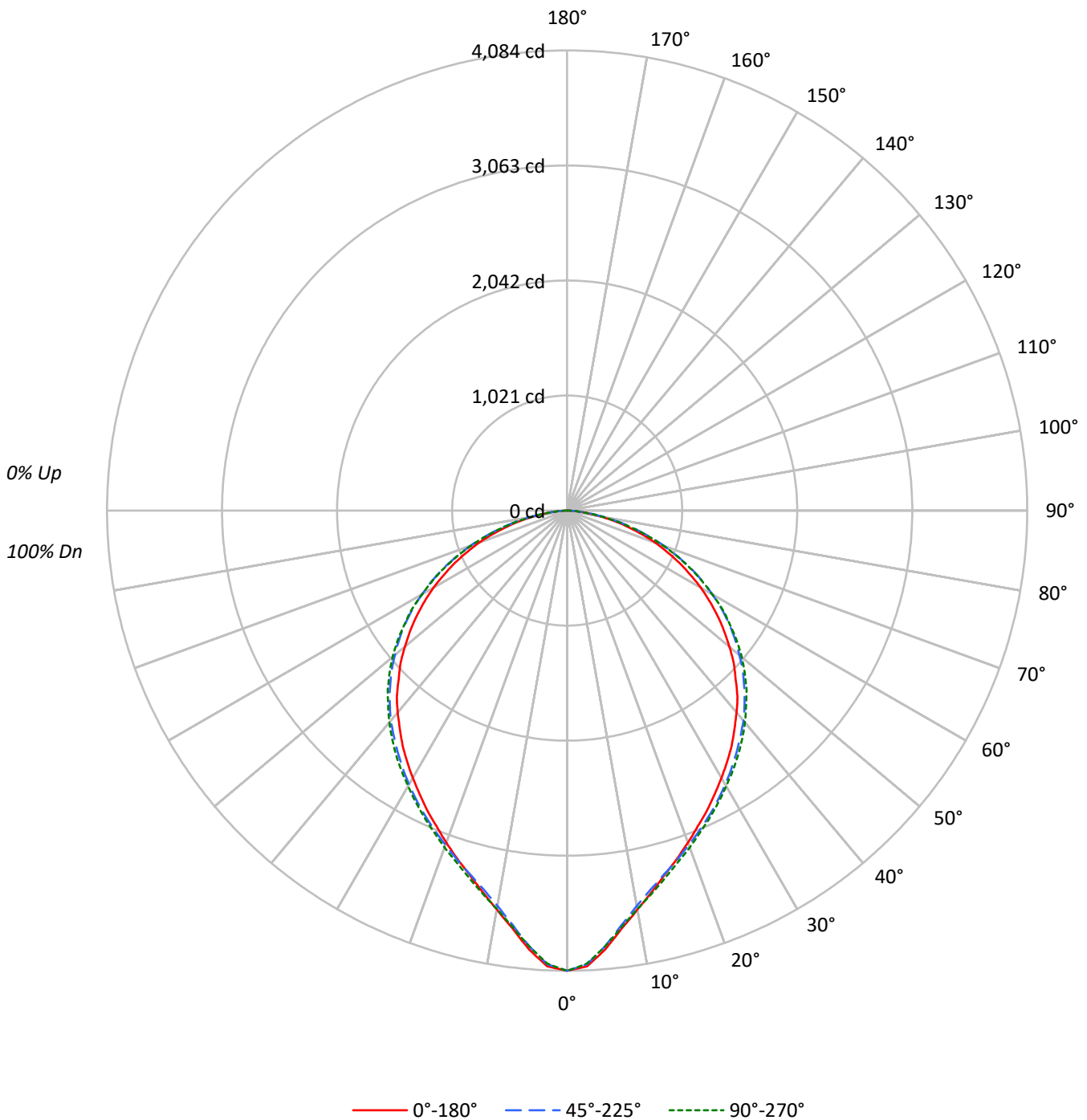
Lumens per Lamp: N/A
Luminaire Lumens: 9486.2 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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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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°	10990	10990	10990
5°	10552	10478	10478
10°	9821	9731	9807
15°	9319	9302	9393
20°	8977	9042	9112
25°	8720	8863	8914
30°	8511	8720	8774
35°	8364	8609	8696
40°	8216	8550	8621
45°	8047	8466	8567
50°	7869	8361	8472
55°	7651	8239	8273
60°	7376	8013	7997
65°	6991	7706	7654
70°	6527	7186	7098
75°	5761	6366	6303
80°	4680	5187	4933
85°	3245	3307	3183



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.9	3.8
10°-20°	945.2	10.0
20°-30°	1374.6	14.5
30°-40°	1635.7	17.2
40°-50°	1698.4	17.9
50°-60°	1538.7	16.2
60°-70°	1161.1	12.2
70°-80°	632.6	6.7
80°-90°	139.0	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°	2680.7	28.3
0°-40°	4316.4	45.5
0°-60°	7553.5	79.6
0°-90°	9486.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9486.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4084	4084	4084	4084	4084	
5°	3906	3897	3879	3877	3879	363
15°	3345	3337	3339	3362	3372	944
25°	2937	2961	2985	3009	3002	1353
35°	2546	2577	2621	2660	2647	1592
45°	2114	2152	2225	2249	2251	1634
55°	1631	1670	1756	1768	1763	1456
65°	1098	1130	1210	1208	1202	1085
75°	554	577	612	616	606	590
85°	105	106	107	106	103	133
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4084.0	4084.0	4084.0	4084.0	4084.0
2.5°	4048.2	4044.1	4030.9	4025.8	4024.7
5°	3906.4	3897.2	3878.8	3876.8	3878.8
7.5°	3737.0	3726.8	3708.4	3715.6	3724.8
10°	3594.1	3568.6	3561.4	3571.7	3589.0
12.5°	3466.5	3446.1	3440.0	3466.5	3478.8
15°	3345.1	3336.9	3339.0	3361.5	3371.6
17.5°	3240.0	3234.9	3248.2	3265.5	3270.7
20°	3134.9	3145.1	3157.4	3175.8	3181.8
22.5°	3031.9	3051.2	3071.7	3096.1	3088.0
25°	2937.0	2961.4	2984.9	3009.4	3002.3
27.5°	2835.9	2864.4	2897.1	2923.7	2913.4
30°	2738.9	2774.7	2806.3	2838.9	2823.7
32.5°	2643.1	2676.7	2714.5	2754.3	2736.9
35°	2546.1	2576.7	2620.6	2660.4	2647.1
37.5°	2439.0	2476.7	2526.7	2561.4	2552.2
40°	2338.9	2373.6	2433.8	2456.3	2454.2
42.5°	2237.9	2266.5	2329.8	2355.3	2351.2
45°	2114.5	2152.2	2224.6	2249.2	2251.2
47.5°	2005.2	2036.9	2114.5	2133.8	2137.9
50°	1879.7	1919.5	1997.1	2020.5	2023.6
52.5°	1756.2	1799.1	1878.7	1895.0	1898.1
55°	1630.7	1669.5	1756.2	1768.5	1763.4
57.5°	1499.1	1546.0	1625.7	1631.7	1636.8
60°	1370.5	1411.3	1488.9	1497.0	1485.8
62.5°	1230.7	1272.5	1352.2	1354.1	1345.0
65°	1098.0	1129.7	1210.2	1208.2	1202.1
67.5°	959.2	998.0	1057.2	1059.2	1054.2
70°	829.6	856.2	913.3	914.4	902.1
72.5°	689.9	718.4	764.3	758.2	755.2
75°	554.1	576.6	612.3	616.4	606.2
77.5°	429.6	445.9	472.5	469.5	458.2
80°	302.0	315.3	334.7	330.7	318.3
82.5°	192.8	201.1	213.3	208.2	203.1
85°	105.1	106.1	107.1	106.1	103.1
87.5°	38.8	39.8	39.8	38.8	35.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)