

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: P488793

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-2HI-50-120-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: P488793
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-50-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

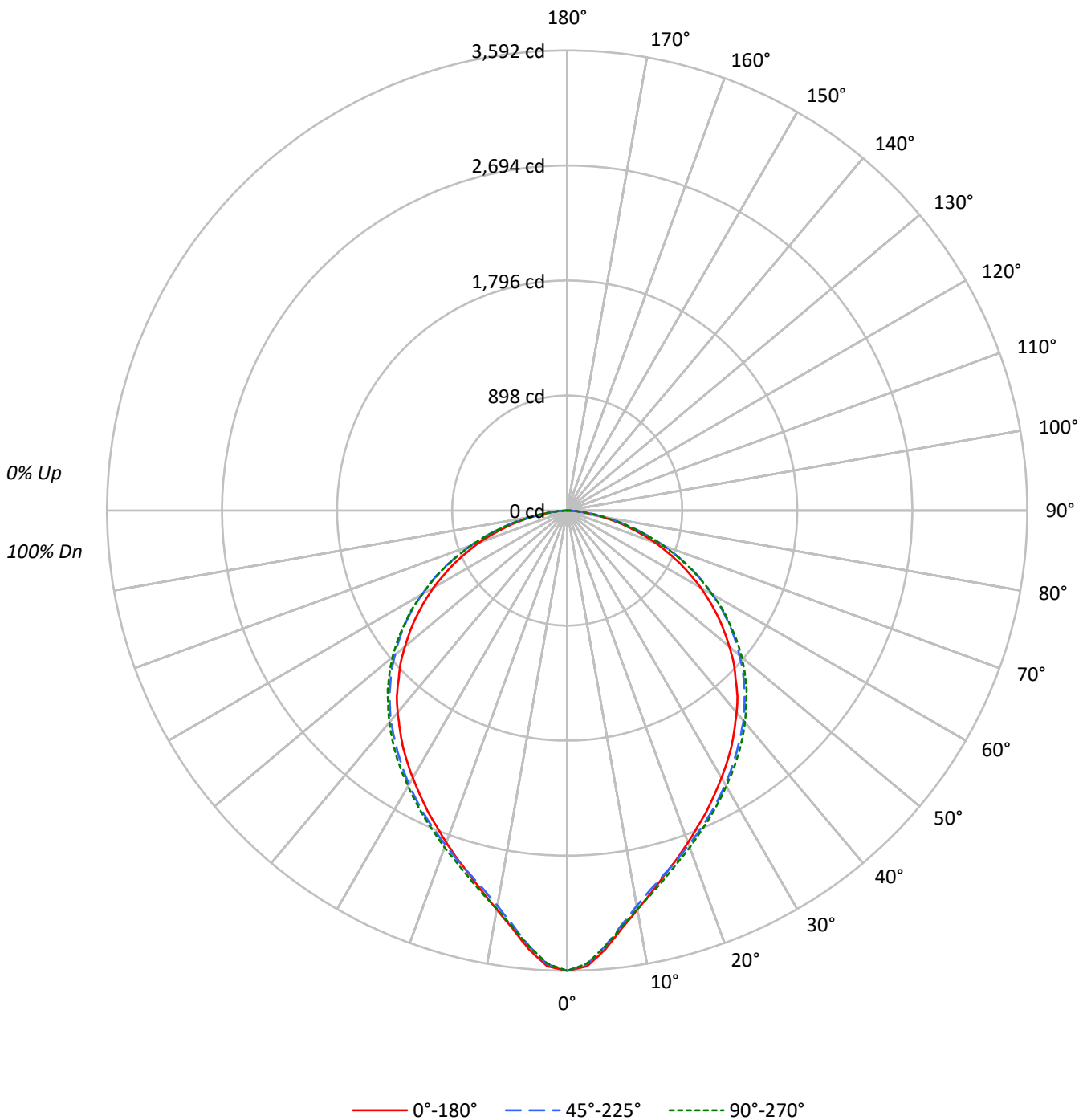
Lumens per Lamp: N/A
Luminaire Lumens: 8343.4 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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°	9666	9666	9666
5°	9281	9215	9215
10°	8638	8559	8625
15°	8196	8182	8261
20°	7896	7952	8014
25°	7670	7795	7840
30°	7485	7669	7717
35°	7357	7572	7648
40°	7227	7520	7583
45°	7077	7446	7535
50°	6921	7353	7451
55°	6729	7247	7277
60°	6487	7048	7033
65°	6149	6777	6732
70°	5741	6320	6243
75°	5068	5600	5543
80°	4117	4562	4339
85°	2856	2908	2797



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.4	3.8
10°-20°	831.4	10.0
20°-30°	1209.0	14.5
30°-40°	1438.6	17.2
40°-50°	1493.8	17.9
50°-60°	1353.3	16.2
60°-70°	1021.2	12.2
70°-80°	556.4	6.7
80°-90°	122.3	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°	2357.7	28.3
0°-40°	3796.4	45.5
0°-60°	6643.5	79.6
0°-90°	8343.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8343.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3592	3592	3592	3592	3592	
5°	3436	3428	3412	3410	3412	319
15°	2942	2935	2937	2956	2965	830
25°	2583	2605	2625	2647	2641	1190
35°	2239	2266	2305	2340	2328	1400
45°	1860	1893	1957	1978	1980	1438
55°	1434	1468	1545	1556	1551	1281
65°	966	994	1064	1063	1057	955
75°	487	507	539	542	533	519
85°	92	93	94	93	91	117
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3592.0	3592.0	3592.0	3592.0	3592.0
2.5°	3560.5	3556.9	3545.3	3540.8	3539.9
5°	3435.8	3427.7	3411.5	3409.8	3411.5
7.5°	3286.8	3277.8	3261.7	3267.9	3276.0
10°	3161.1	3138.7	3132.4	3141.4	3156.6
12.5°	3048.9	3031.0	3025.6	3048.9	3059.7
15°	2942.1	2934.9	2936.8	2956.5	2965.4
17.5°	2849.7	2845.2	2856.9	2872.1	2876.6
20°	2757.2	2766.2	2777.0	2793.2	2798.5
22.5°	2666.6	2683.6	2701.6	2723.1	2716.0
25°	2583.1	2604.7	2625.3	2646.8	2640.6
27.5°	2494.3	2519.4	2548.1	2571.5	2562.5
30°	2409.0	2440.4	2468.2	2496.9	2483.5
32.5°	2324.7	2354.3	2387.4	2422.5	2407.2
35°	2239.4	2266.3	2304.9	2339.9	2328.2
37.5°	2145.1	2178.3	2222.3	2252.8	2244.8
40°	2057.2	2087.7	2140.6	2160.4	2158.6
42.5°	1968.3	1993.5	2049.1	2071.5	2067.9
45°	1859.7	1892.9	1956.6	1978.2	1980.0
47.5°	1763.7	1791.5	1859.7	1876.7	1880.3
50°	1653.3	1688.3	1756.5	1777.1	1779.8
52.5°	1544.6	1582.3	1652.4	1666.7	1669.5
55°	1434.2	1468.3	1544.6	1555.5	1551.0
57.5°	1318.5	1359.8	1429.8	1435.2	1439.7
60°	1205.4	1241.3	1309.5	1316.7	1306.8
62.5°	1082.4	1119.2	1189.3	1191.0	1182.9
65°	965.7	993.6	1064.4	1062.7	1057.3
67.5°	843.7	877.8	929.9	931.6	927.2
70°	729.7	753.0	803.3	804.2	793.5
72.5°	606.8	631.9	672.2	666.9	664.2
75°	487.4	507.1	538.6	542.1	533.1
77.5°	377.9	392.2	415.6	412.9	403.0
80°	265.7	277.3	294.4	290.8	280.0
82.5°	169.6	176.8	187.6	183.1	178.6
85°	92.5	93.3	94.2	93.3	90.6
87.5°	34.1	35.0	35.0	34.1	31.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)