

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: P488630

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-3STD-30-120-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: P488630
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-115-8)
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-A12125-LD4-3STD-30-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

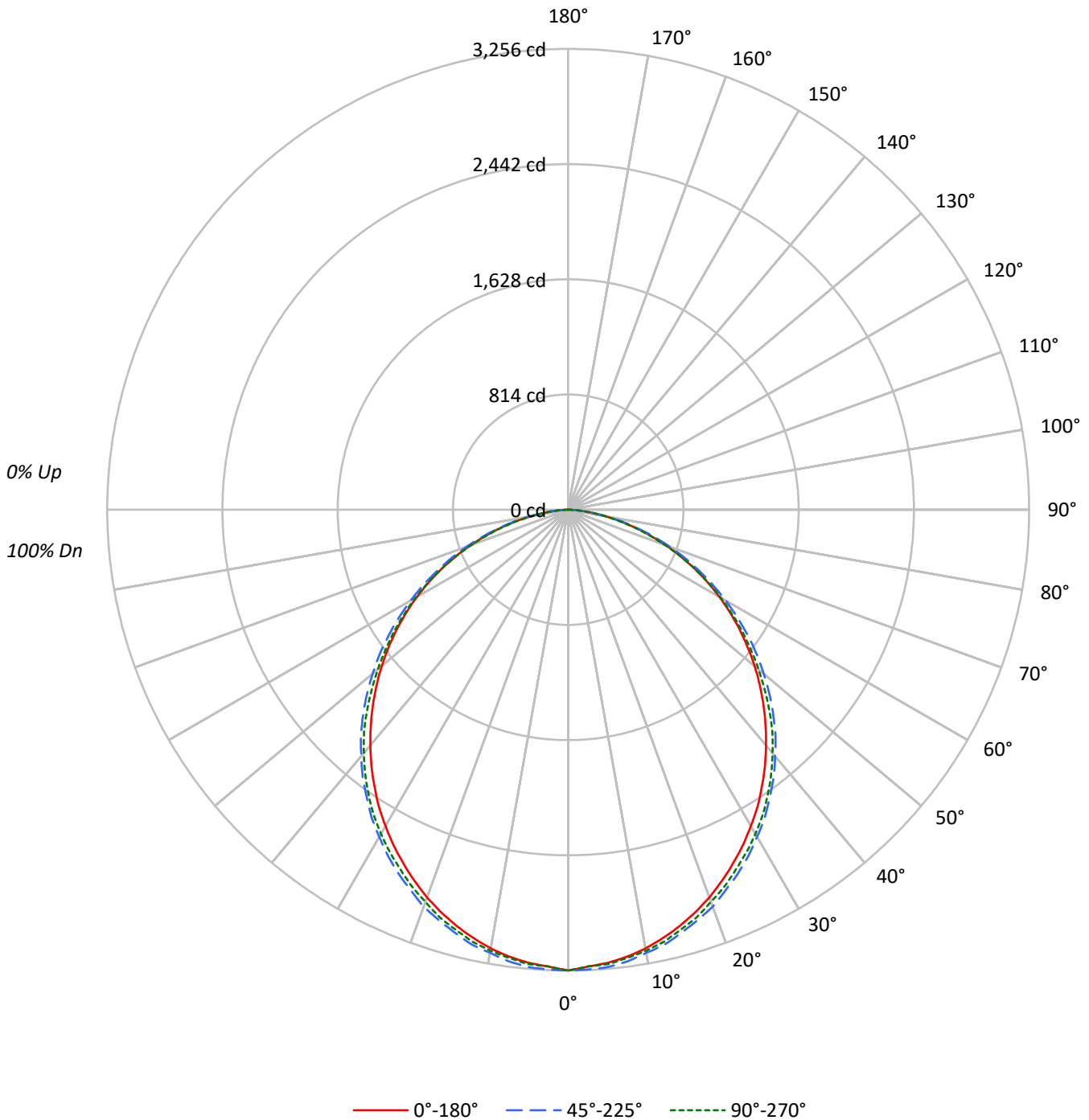
Lumens per Lamp: N/A
Luminaire Lumens: 8559.5 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8761	8761	8761
5°	8680	8762	8708
10°	8601	8688	8646
15°	8481	8618	8558
20°	8348	8546	8443
25°	8185	8423	8326
30°	8020	8292	8216
35°	7839	8150	8074
40°	7636	7987	7886
45°	7421	7796	7649
50°	7199	7546	7349
55°	6937	7262	7039
60°	6641	6917	6704
65°	6259	6499	6264
70°	5759	5991	5696
75°	5072	5300	4994
80°	4121	4300	4074
85°	2868	3057	2986



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.6	3.6
10°-20°	868.9	10.2
20°-30°	1295.9	15.1
30°-40°	1535.7	17.9
40°-50°	1553.9	18.2
50°-60°	1357.1	15.9
60°-70°	991.7	11.6
70°-80°	527.7	6.2
80°-90°	121.9	1.4
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°	2471.5	28.9
0°-40°	4007.2	46.8
0°-60°	6918.2	80.8
0°-90°	8559.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8559.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3256	3256	3256	3256	3256	
5°	3213	3219	3244	3251	3224	305
15°	3044	3065	3094	3112	3072	858
25°	2757	2791	2837	2847	2804	1270
35°	2386	2424	2481	2498	2458	1492
45°	1950	1985	2048	2050	2010	1504
55°	1479	1508	1548	1525	1500	1322
65°	983	1003	1021	1000	984	973
75°	488	499	510	491	480	519
85°	93	95	99	100	97	118
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3255.7	3255.7	3255.7	3255.7	3255.7
2.5°	3230.3	3240.8	3251.7	3256.4	3229.9
5°	3213.3	3219.4	3243.5	3251.0	3223.5
7.5°	3185.5	3194.7	3218.1	3221.5	3195.0
10°	3147.5	3163.8	3179.4	3196.4	3164.1
12.5°	3099.0	3121.1	3147.5	3150.6	3126.2
15°	3044.4	3064.8	3093.6	3112.2	3071.9
17.5°	2983.3	3003.0	3040.3	3043.7	3019.3
20°	2915.2	2939.6	2984.4	2992.2	2948.4
22.5°	2837.8	2870.7	2908.0	2915.5	2883.3
25°	2756.8	2790.7	2836.8	2847.3	2804.2
27.5°	2672.0	2704.5	2756.4	2763.9	2727.6
30°	2581.0	2611.6	2668.6	2681.1	2644.1
32.5°	2488.8	2519.3	2582.4	2592.9	2557.0
35°	2386.3	2423.6	2481.0	2498.3	2457.9
37.5°	2281.9	2318.2	2383.3	2398.9	2355.5
40°	2173.7	2209.6	2273.7	2286.6	2244.9
42.5°	2063.1	2099.0	2167.5	2169.6	2135.0
45°	1950.1	1984.7	2048.5	2050.2	2009.8
47.5°	1835.5	1870.4	1927.4	1920.9	1882.9
50°	1719.5	1752.7	1802.6	1789.7	1755.4
52.5°	1599.4	1631.6	1678.7	1657.7	1625.5
55°	1478.6	1508.5	1547.8	1525.4	1500.3
57.5°	1356.8	1387.0	1417.2	1394.5	1372.8
60°	1234.0	1260.5	1285.3	1262.2	1245.6
62.5°	1109.2	1131.9	1153.3	1131.3	1115.7
65°	983.0	1003.0	1020.7	1000.3	983.7
67.5°	857.5	874.5	890.8	869.7	852.4
70°	732.0	746.6	761.5	739.8	723.9
72.5°	608.2	621.1	634.3	613.3	599.4
75°	487.8	499.0	509.8	491.2	480.3
77.5°	372.8	382.3	389.8	377.9	367.4
80°	265.9	273.1	277.5	272.7	262.9
82.5°	171.0	176.0	178.4	178.1	171.6
85°	92.9	94.6	99.0	100.1	96.7
87.5°	36.0	38.3	39.3	42.4	39.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)