

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: P488604

Luminaire Tested: **CLM-12-4-INS-A12125-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: P488604
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-LD4-3HI-27-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

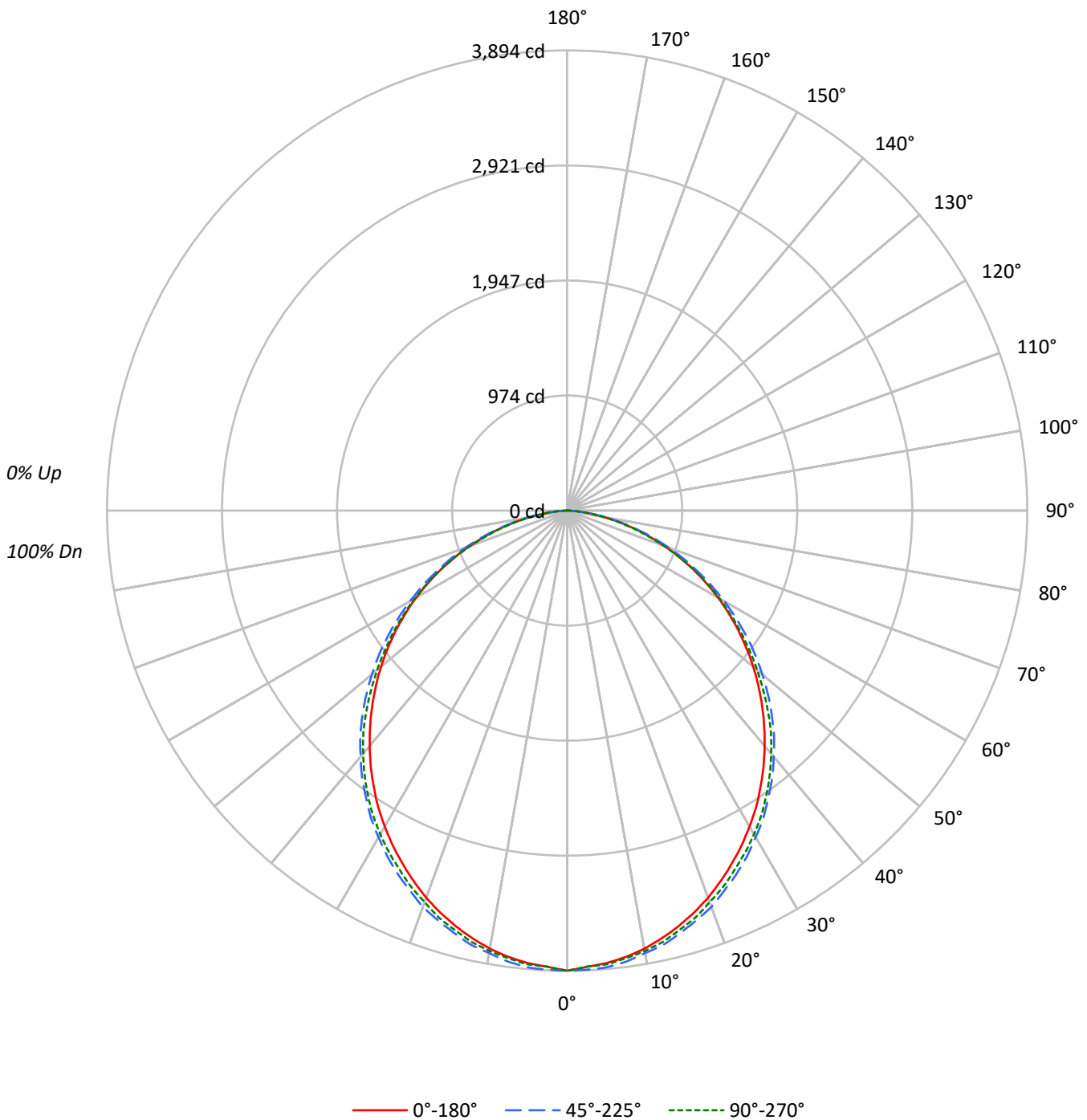
Lumens per Lamp: N/A
Luminaire Lumens: 10236.9 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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°	10478	10478	10478
5°	10381	10478	10414
10°	10286	10390	10340
15°	10143	10307	10235
20°	9984	10221	10098
25°	9789	10073	9958
30°	9592	9917	9826
35°	9376	9747	9657
40°	9132	9552	9431
45°	8876	9323	9148
50°	8609	9025	8789
55°	8297	8685	8418
60°	7943	8273	8018
65°	7486	7773	7491
70°	6888	7166	6811
75°	6066	6339	5972
80°	4930	5142	4872
85°	3433	3659	3569



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.7	3.6
10°-20°	1039.2	10.2
20°-30°	1549.9	15.1
30°-40°	1836.6	17.9
40°-50°	1858.4	18.2
50°-60°	1623.0	15.9
60°-70°	1186.1	11.6
70°-80°	631.1	6.2
80°-90°	145.9	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°	2955.8	28.9
0°-40°	4792.4	46.8
0°-60°	8273.9	80.8
0°-90°	10236.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10236.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3894	3894	3894	3894	3894	
5°	3843	3850	3879	3888	3855	364
15°	3641	3665	3700	3722	3674	1026
25°	3297	3338	3393	3405	3354	1519
35°	2854	2899	2967	2988	2940	1785
45°	2332	2374	2450	2452	2404	1799
55°	1768	1804	1851	1824	1794	1581
65°	1176	1200	1221	1196	1176	1163
75°	583	597	610	587	574	620
85°	111	113	118	120	116	141
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3893.8	3893.8	3893.8	<i>3893.8</i>	3893.8
2.5°	<i>3863.3</i>	<i>3875.9</i>	<i>3888.9</i>	<i>3894.6</i>	<i>3862.9</i>
5°	3843.0	3850.3	3879.1	<i>3888.1</i>	3855.2
7.5°	3809.8	3820.7	3848.7	<i>3852.8</i>	3821.1
10°	3764.3	3783.8	3802.5	<i>3822.8</i>	3784.2
12.5°	3706.3	3732.7	3764.3	<i>3768.0</i>	3738.8
15°	3641.0	3665.4	3699.8	<i>3722.1</i>	3673.9
17.5°	3568.0	3591.5	3636.1	<i>3640.2</i>	3611.0
20°	3486.4	3515.7	3569.2	<i>3578.5</i>	3526.2
22.5°	3394.0	3433.3	3477.9	<i>3486.9</i>	3448.3
25°	3297.0	3337.6	3392.7	<i>3405.3</i>	3353.8
27.5°	3195.6	3234.5	3296.6	<i>3305.5</i>	3262.1
30°	3086.8	3123.4	3191.5	<i>3206.5</i>	3162.3
32.5°	2976.5	3013.0	3088.5	<i>3101.0</i>	3058.0
35°	2854.0	2898.6	2967.2	<i>2987.9</i>	2939.6
37.5°	2729.0	2772.4	2850.3	<i>2869.0</i>	2817.1
40°	2599.6	2642.6	2719.3	<i>2734.7</i>	2684.8
42.5°	2467.4	2510.4	2592.3	<i>2594.8</i>	2553.4
45°	2332.3	2373.7	2449.9	<i>2452.0</i>	2403.7
47.5°	2195.2	2236.9	2305.1	<i>2297.4</i>	2252.0
50°	2056.4	2096.2	2155.8	<i>2140.4</i>	2099.4
52.5°	1912.8	1951.3	2007.7	<i>1982.6</i>	1944.0
55°	1768.4	1804.1	1851.1	<i>1824.4</i>	1794.3
57.5°	1622.7	1658.8	1694.9	<i>1667.8</i>	1641.8
60°	1475.9	1507.5	1537.1	<i>1509.5</i>	1489.7
62.5°	1326.6	1353.8	1379.3	<i>1353.0</i>	1334.3
65°	1175.7	1199.6	1220.7	<i>1196.4</i>	1176.5
67.5°	1025.6	1045.9	1065.3	<i>1040.2</i>	1019.5
70°	875.5	892.9	910.8	<i>884.8</i>	865.7
72.5°	727.4	742.8	758.6	<i>733.5</i>	716.8
75°	583.4	596.8	609.7	<i>587.4</i>	574.4
77.5°	445.8	457.2	466.1	<i>451.9</i>	439.4
80°	318.1	326.6	331.8	<i>326.2</i>	314.4
82.5°	204.5	210.5	213.4	<i>213.0</i>	205.3
85°	111.2	113.2	118.5	<i>119.7</i>	115.6
87.5°	43.0	45.8	47.1	<i>50.7</i>	46.7
90°	0.0	0.0	0.0	<i>0.0</i>	0.0

(END OF REPORT)