

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: P488546

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-1LO-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: P488546
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-LD4-1LO-30-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

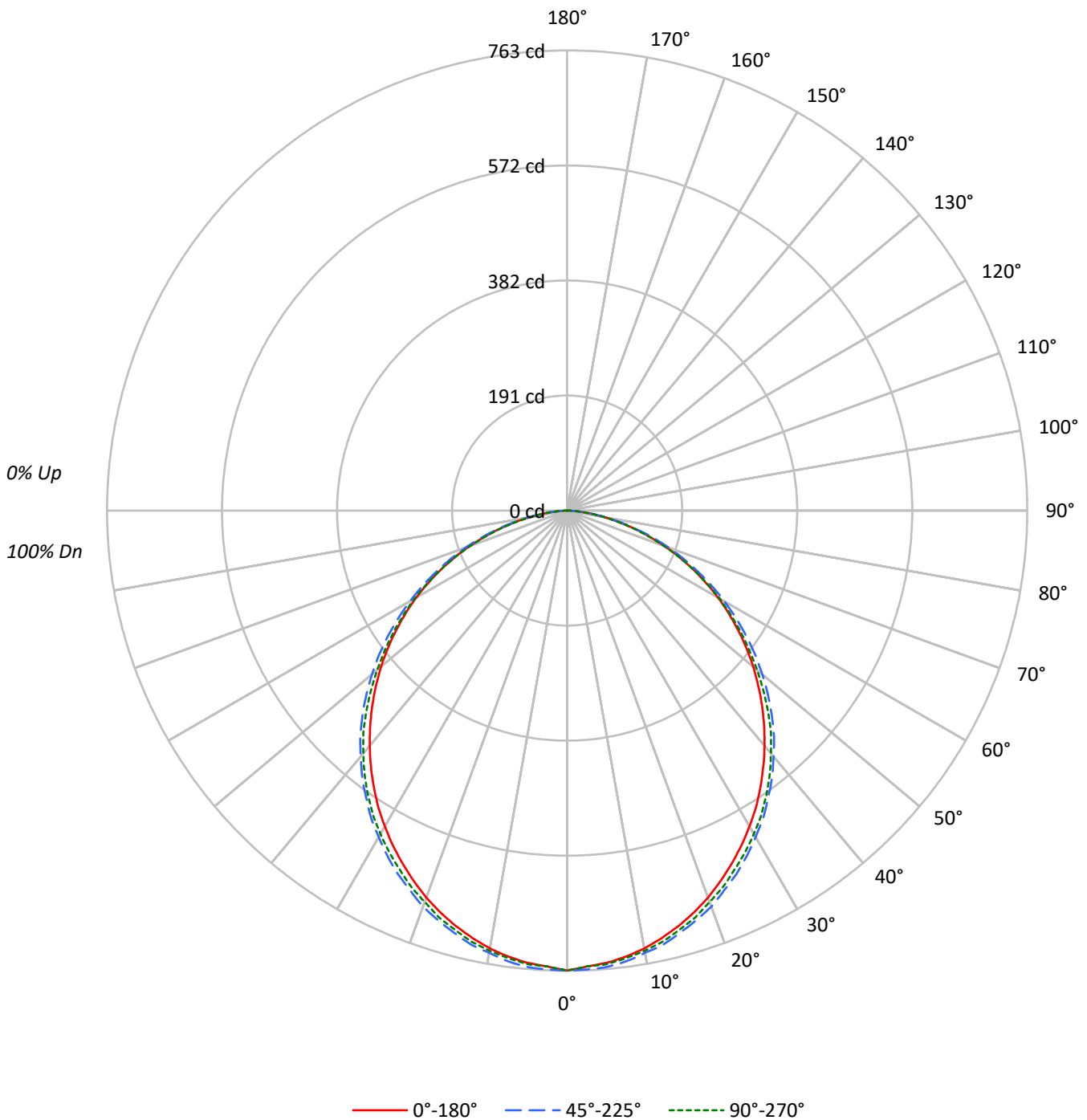
Lumens per Lamp: N/A
Luminaire Lumens: 2004.9 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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	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°	2052	2052	2052
5°	2033	2052	2039
10°	2014	2035	2025
15°	1987	2019	2004
20°	1955	2002	1978
25°	1917	1973	1950
30°	1879	1942	1924
35°	1836	1909	1891
40°	1788	1871	1847
45°	1738	1826	1792
50°	1686	1768	1721
55°	1625	1701	1649
60°	1556	1620	1570
65°	1466	1522	1467
70°	1349	1404	1334
75°	1188	1241	1170
80°	965	1007	955
85°	673	716	698



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.8	3.6
10°-20°	203.5	10.2
20°-30°	303.6	15.1
30°-40°	359.7	17.9
40°-50°	364.0	18.2
50°-60°	317.9	15.9
60°-70°	232.3	11.6
70°-80°	123.6	6.2
80°-90°	28.6	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°	578.9	28.9
0°-40°	938.6	46.8
0°-60°	1620.4	80.8
0°-90°	2004.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2004.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	763	763	763	763	763	
5°	753	754	760	762	755	71
15°	713	718	725	729	720	201
25°	646	654	664	667	657	297
35°	559	568	581	585	576	350
45°	457	465	480	480	471	352
55°	346	353	362	357	351	310
65°	230	235	239	234	230	228
75°	114	117	119	115	112	121
85°	22	22	23	23	23	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	762.6	762.6	762.6	762.6	762.6
2.5°	756.6	759.1	761.6	762.8	756.6
5°	752.7	754.1	759.7	761.5	755.0
7.5°	746.1	748.3	753.8	754.6	748.4
10°	737.2	741.1	744.7	748.7	741.1
12.5°	725.9	731.0	737.2	738.0	732.2
15°	713.1	717.9	724.6	729.0	719.5
17.5°	698.8	703.4	712.1	712.9	707.2
20°	682.8	688.5	699.0	700.9	690.6
22.5°	664.7	672.4	681.2	682.9	675.4
25°	645.7	653.7	664.5	666.9	656.8
27.5°	625.9	633.5	645.6	647.4	638.9
30°	604.6	611.7	625.1	628.0	619.3
32.5°	582.9	590.1	604.9	607.3	598.9
35°	559.0	567.7	581.1	585.2	575.7
37.5°	534.5	543.0	558.2	561.9	551.7
40°	509.1	517.6	532.6	535.6	525.8
42.5°	483.2	491.7	507.7	508.2	500.1
45°	456.8	464.9	479.8	480.2	470.8
47.5°	429.9	438.1	451.5	449.9	441.0
50°	402.7	410.5	422.2	419.2	411.2
52.5°	374.6	382.2	393.2	388.3	380.7
55°	346.3	353.3	362.5	357.3	351.4
57.5°	317.8	324.9	332.0	326.6	321.5
60°	289.1	295.2	301.0	295.6	291.8
62.5°	259.8	265.1	270.1	265.0	261.3
65°	230.3	234.9	239.1	234.3	230.4
67.5°	200.9	204.8	208.6	203.7	199.7
70°	171.5	174.9	178.4	173.3	169.6
72.5°	142.5	145.5	148.6	143.7	140.4
75°	114.3	116.9	119.4	115.0	112.5
77.5°	87.3	89.5	91.3	88.5	86.0
80°	62.3	64.0	65.0	63.9	61.6
82.5°	40.0	41.2	41.8	41.7	40.2
85°	21.8	22.2	23.2	23.4	22.6
87.5°	8.4	9.0	9.2	9.9	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)