

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: P488611

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-3HI-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: P488611
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-40-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

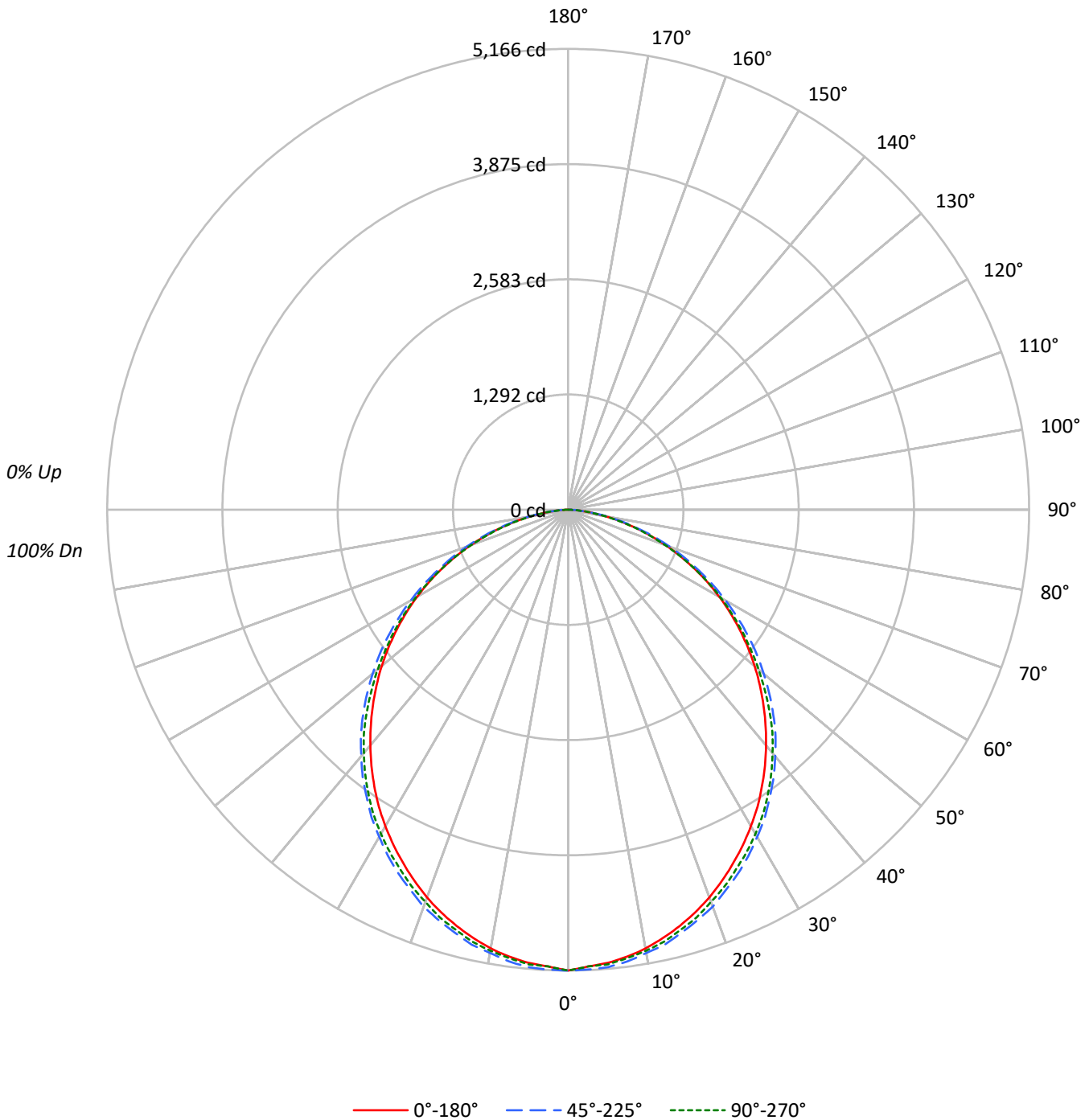
Lumens per Lamp: N/A
Luminaire Lumens: 13582.5 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	13902	13902	13902
5°	13774	13903	13817
10°	13648	13786	13720
15°	13459	13676	13580
20°	13247	13562	13398
25°	12989	13366	13212
30°	12726	13158	13038
35°	12440	12933	12813
40°	12116	12674	12514
45°	11776	12371	12137
50°	11423	11975	11661
55°	11008	11523	11170
60°	10539	10977	10637
65°	9933	10313	9940
70°	9139	9508	9038
75°	8047	8411	7925
80°	6540	6823	6465
85°	4554	4854	4736



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.6	3.6
10°-20°	1378.8	10.2
20°-30°	2056.4	15.1
30°-40°	2436.9	17.9
40°-50°	2465.8	18.2
50°-60°	2153.5	15.9
60°-70°	1573.7	11.6
70°-80°	837.3	6.2
80°-90°	193.5	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°	3921.8	28.9
0°-40°	6358.7	46.8
0°-60°	10978.0	80.8
0°-90°	13582.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13582.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5166	5166	5166	5166	5166	
5°	5099	5109	5147	5159	5115	483
15°	4831	4863	4909	4939	4875	1362
25°	4374	4428	4502	4518	4450	2015
35°	3787	3846	3937	3964	3900	2368
45°	3094	3149	3251	3253	3189	2387
55°	2346	2394	2456	2421	2381	2097
65°	1560	1592	1620	1587	1561	1544
75°	774	792	809	779	762	823
85°	148	150	157	159	153	187
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5166.3	5166.3	5166.3	5166.3	5166.3
2.5°	5125.9	5142.6	5159.8	5167.4	5125.4
5°	5099.0	5108.7	5146.9	5158.8	5115.2
7.5°	5054.9	5069.4	5106.6	5111.9	5069.9
10°	4994.6	5020.4	5045.2	5072.1	5021.0
12.5°	4917.6	4952.6	4994.6	4999.4	4960.7
15°	4831.0	4863.3	4909.0	4938.6	4874.6
17.5°	4734.1	4765.3	4824.5	4829.9	4791.1
20°	4625.9	4664.6	4735.7	4748.1	4678.6
22.5°	4503.2	4555.4	4614.6	4626.4	4575.3
25°	4374.5	4428.3	4501.5	4518.2	4449.9
27.5°	4239.9	4291.6	4374.0	4385.8	4328.2
30°	4095.7	4144.1	4234.6	4254.5	4195.8
32.5°	3949.3	3997.7	4097.8	4114.5	4057.5
35°	3786.7	3845.9	3936.9	3964.3	3900.3
37.5°	3620.9	3678.5	3781.9	3806.6	3737.7
40°	3449.2	3506.3	3608.0	3628.5	3562.3
42.5°	3273.7	3330.8	3439.5	3442.8	3387.9
45°	3094.5	3149.4	3250.6	3253.3	3189.2
47.5°	2912.6	2968.0	3058.4	3048.2	2987.9
50°	2728.5	2781.2	2860.4	2839.9	2785.5
52.5°	2537.9	2589.1	2663.9	2630.5	2579.4
55°	2346.3	2393.7	2456.1	2420.6	2380.8
57.5°	2153.1	2201.0	2248.9	2212.8	2178.4
60°	1958.2	2000.2	2039.5	2002.9	1976.5
62.5°	1760.1	1796.2	1830.1	1795.1	1770.4
65°	1559.9	1591.7	1619.6	1587.4	1561.0
67.5°	1360.7	1387.7	1413.5	1380.1	1352.7
70°	1161.6	1184.7	1208.4	1174.0	1148.7
72.5°	965.1	985.6	1006.6	973.2	951.1
75°	774.0	791.8	809.0	779.4	762.2
77.5°	591.6	606.6	618.5	599.6	582.9
80°	422.0	433.3	440.3	432.8	417.2
82.5°	271.3	279.4	283.1	282.6	272.4
85°	147.5	150.2	157.2	158.8	153.4
87.5°	57.1	60.8	62.4	67.3	61.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)