

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: P488370

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-2LO-40-120-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: P488370
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-12-2-INS-A12125-LD4-2LO-40-120-EDD-90
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

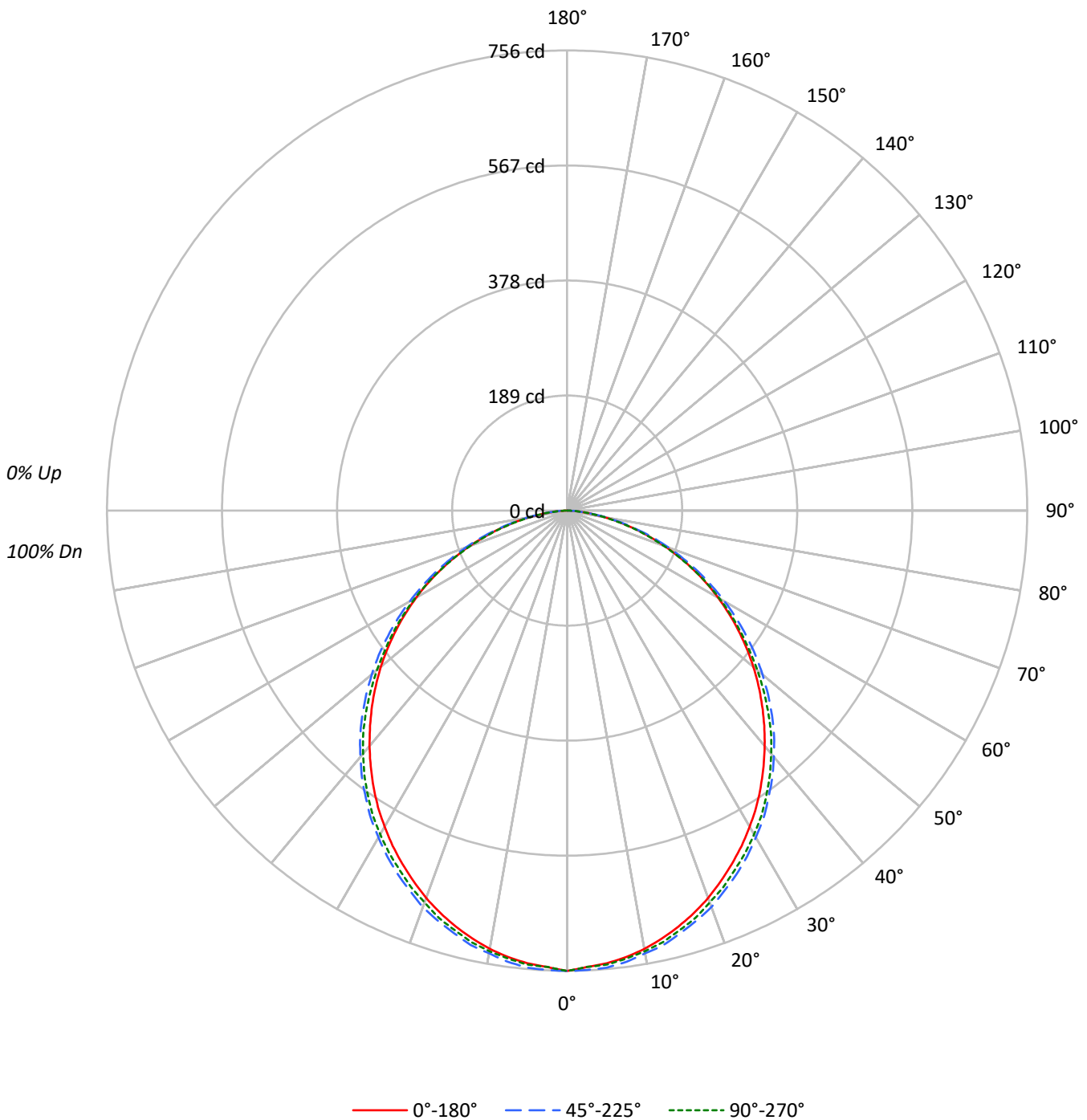
Lumens per Lamp: N/A
Luminaire Lumens: 1988.6 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	4071	4071	4071
5°	4033	4071	4046
10°	3997	4037	4017
15°	3941	4004	3977
20°	3879	3971	3923
25°	3804	3914	3869
30°	3726	3853	3818
35°	3642	3787	3752
40°	3548	3711	3664
45°	3449	3622	3554
50°	3345	3507	3414
55°	3223	3374	3271
60°	3086	3214	3115
65°	2909	3019	2910
70°	2677	2784	2647
75°	2356	2462	2321
80°	1915	1999	1894
85°	1334	1420	1389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.2	3.6
10°-20°	201.9	10.2
20°-30°	301.1	15.1
30°-40°	356.8	17.9
40°-50°	361.0	18.2
50°-60°	315.3	15.9
60°-70°	230.4	11.6
70°-80°	122.6	6.2
80°-90°	28.3	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°	574.2	28.9
0°-40°	931.0	46.8
0°-60°	1607.3	80.8
0°-90°	1988.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1988.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	756	756	756	756	756	
5°	746	748	754	755	749	71
15°	707	712	719	723	714	199
25°	640	648	659	662	652	295
35°	554	563	576	580	571	347
45°	453	461	476	476	467	350
55°	344	350	360	354	349	307
65°	228	233	237	232	228	226
75°	113	116	118	114	112	120
85°	22	22	23	23	22	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	756.4	756.4	756.4	756.4	756.4
2.5°	750.5	752.9	755.4	756.6	750.4
5°	746.5	748.0	753.6	755.3	748.9
7.5°	740.1	742.2	747.6	748.4	742.3
10°	731.3	735.0	738.7	742.6	735.1
12.5°	720.0	725.1	731.3	732.0	726.3
15°	707.3	712.0	718.7	723.1	713.7
17.5°	693.1	697.7	706.4	707.1	701.5
20°	677.3	682.9	693.3	695.2	685.0
22.5°	659.3	666.9	675.6	677.3	669.9
25°	640.5	648.3	659.1	661.5	651.5
27.5°	620.8	628.3	640.4	642.1	633.7
30°	599.6	606.7	620.0	622.9	614.3
32.5°	578.2	585.3	600.0	602.4	594.0
35°	554.4	563.1	576.4	580.4	571.0
37.5°	530.1	538.6	553.7	557.3	547.2
40°	505.0	513.4	528.2	531.2	521.5
42.5°	479.3	487.7	503.6	504.1	496.0
45°	453.1	461.1	475.9	476.3	466.9
47.5°	426.4	434.5	447.8	446.3	437.5
50°	399.5	407.2	418.8	415.8	407.8
52.5°	371.6	379.1	390.0	385.1	377.6
55°	343.5	350.5	359.6	354.4	348.6
57.5°	315.2	322.2	329.3	324.0	318.9
60°	286.7	292.8	298.6	293.2	289.4
62.5°	257.7	263.0	267.9	262.8	259.2
65°	228.4	233.0	237.1	232.4	228.5
67.5°	199.2	203.2	206.9	202.1	198.0
70°	170.1	173.5	176.9	171.9	168.2
72.5°	141.3	144.3	147.4	142.5	139.3
75°	113.3	115.9	118.4	114.1	111.6
77.5°	86.6	88.8	90.5	87.8	85.3
80°	61.8	63.4	64.5	63.4	61.1
82.5°	39.7	40.9	41.5	41.4	39.9
85°	21.6	22.0	23.0	23.2	22.5
87.5°	8.4	8.9	9.1	9.9	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)