

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: P488324

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-1HI-50-120-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: P488324
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-LD4-1HI-50-120-EDD-90
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

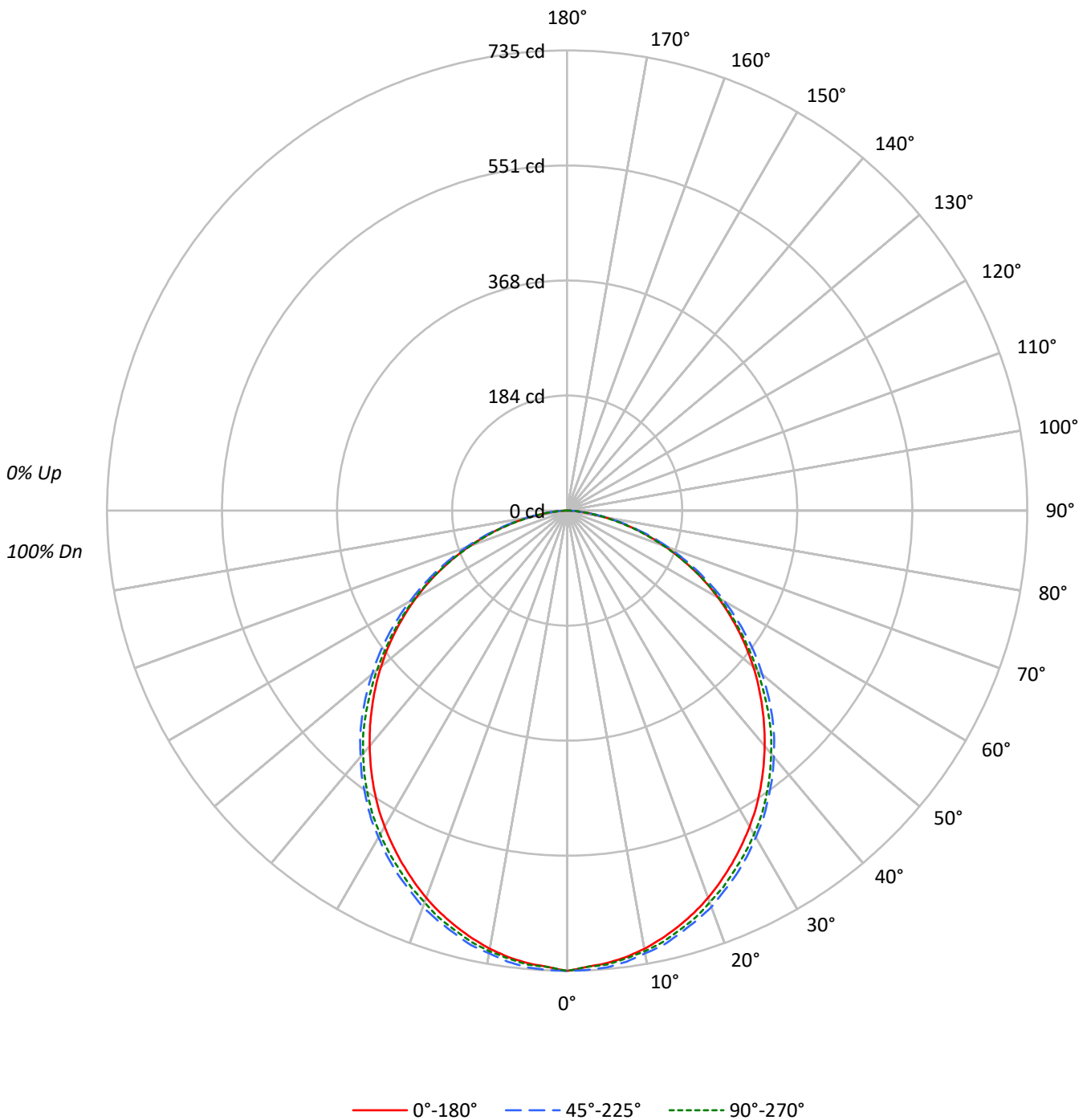
Lumens per Lamp: N/A
Luminaire Lumens: 1932.9 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
Input Voltage (V): NR
Input Current (A_{in}): 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°	3957	3957	3957
5°	3920	3957	3932
10°	3885	3924	3905
15°	3831	3892	3865
20°	3770	3860	3813
25°	3697	3804	3761
30°	3622	3745	3711
35°	3541	3681	3646
40°	3449	3607	3561
45°	3352	3521	3455
50°	3251	3409	3319
55°	3133	3279	3179
60°	3000	3124	3028
65°	2827	2935	2828
70°	2601	2707	2573
75°	2292	2393	2256
80°	1863	1943	1841
85°	1297	1383	1346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.2	3.6
10°-20°	196.2	10.2
20°-30°	292.6	15.1
30°-40°	346.8	17.9
40°-50°	350.9	18.2
50°-60°	306.4	15.9
60°-70°	223.9	11.6
70°-80°	119.2	6.2
80°-90°	27.6	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°	558.1	28.9
0°-40°	904.9	46.8
0°-60°	1562.2	80.8
0°-90°	1932.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1932.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	735	735	735	735	735	
5°	726	727	732	734	728	69
15°	688	692	699	703	694	194
25°	622	630	641	643	633	287
35°	539	547	560	564	555	337
45°	440	448	463	463	454	340
55°	334	341	350	344	339	298
65°	222	226	230	226	222	220
75°	110	113	115	111	108	117
85°	21	21	22	23	22	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	735.2	735.2	735.2	735.2	735.2
2.5°	729.5	731.8	734.3	735.4	729.4
5°	725.6	727.0	732.4	734.1	727.9
7.5°	719.4	721.4	726.7	727.5	721.5
10°	710.8	714.4	718.0	721.8	714.5
12.5°	699.8	704.8	710.8	711.5	705.9
15°	687.5	692.1	698.6	702.8	693.7
17.5°	673.7	678.1	686.6	687.3	681.8
20°	658.3	663.8	673.9	675.7	665.8
22.5°	640.8	648.3	656.7	658.4	651.1
25°	622.5	630.2	640.6	643.0	633.3
27.5°	603.4	610.7	622.5	624.1	615.9
30°	582.8	589.7	602.6	605.4	597.1
32.5°	562.0	568.9	583.2	585.5	577.4
35°	538.9	547.3	560.3	564.2	555.0
37.5°	515.3	523.5	538.2	541.7	531.9
40°	490.9	499.0	513.4	516.4	506.9
42.5°	465.9	474.0	489.5	489.9	482.1
45°	440.4	448.2	462.6	463.0	453.9
47.5°	414.5	422.4	435.2	433.8	425.2
50°	388.3	395.8	407.1	404.1	396.4
52.5°	361.2	368.4	379.1	374.3	367.1
55°	333.9	340.6	349.5	344.5	338.8
57.5°	306.4	313.2	320.0	314.9	310.0
60°	278.7	284.6	290.2	285.0	281.3
62.5°	250.5	255.6	260.4	255.5	251.9
65°	222.0	226.5	230.5	225.9	222.1
67.5°	193.6	197.5	201.2	196.4	192.5
70°	165.3	168.6	172.0	167.1	163.5
72.5°	137.3	140.3	143.2	138.5	135.4
75°	110.2	112.7	115.1	110.9	108.5
77.5°	84.2	86.3	88.0	85.3	83.0
80°	60.1	61.7	62.7	61.6	59.4
82.5°	38.6	39.8	40.3	40.2	38.8
85°	21.0	21.4	22.4	22.6	21.8
87.5°	8.1	8.7	8.9	9.6	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)