

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: P488320

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-1HI-35-120-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: P488320
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-35-120-EDD-90
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

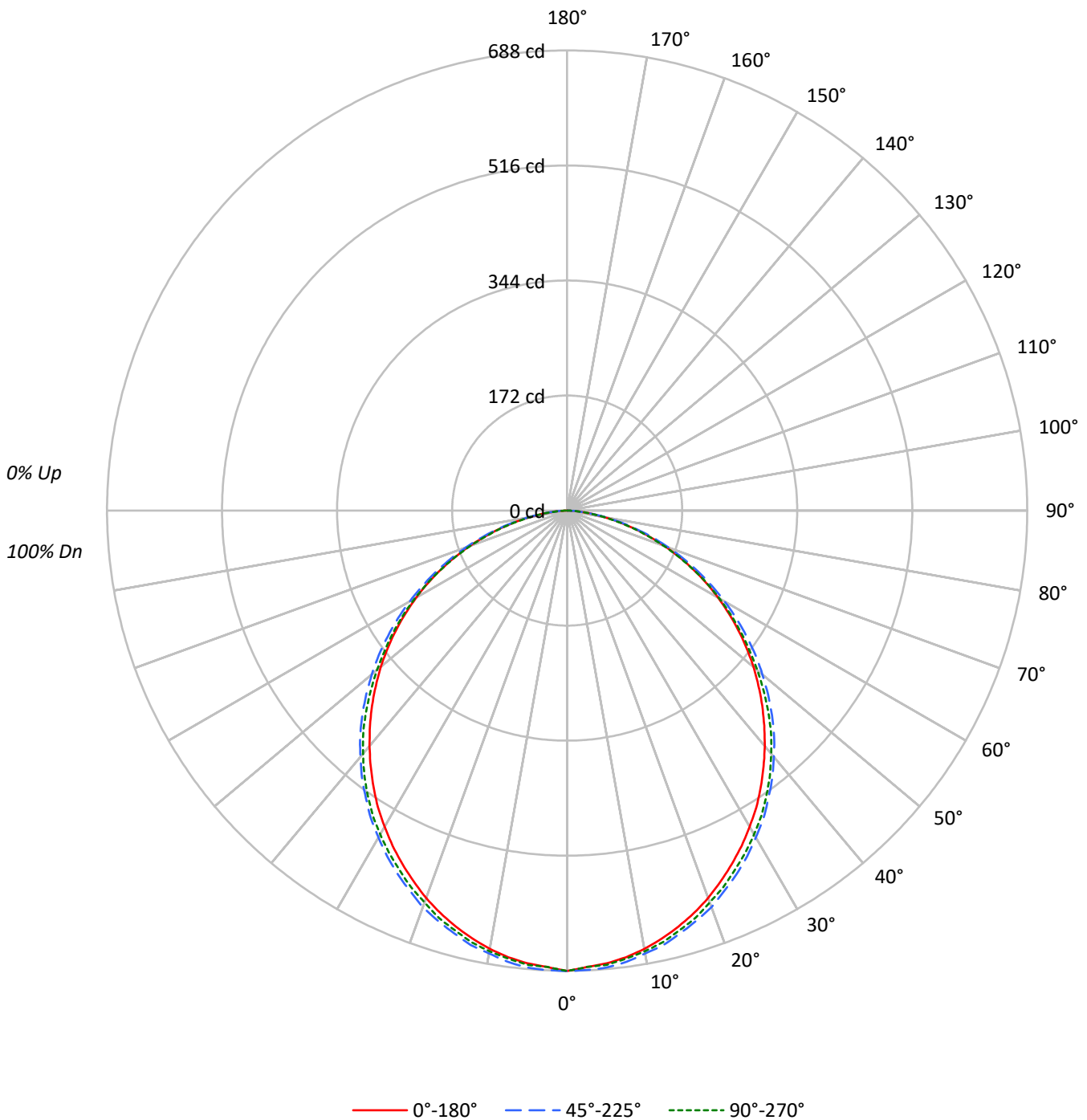
Lumens per Lamp: N/A
Luminaire Lumens: 1809.9 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
Input Voltage (V): NR
Input Current (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°	3705	3705	3705
5°	3671	3705	3682
10°	3637	3674	3657
15°	3587	3645	3619
20°	3530	3614	3570
25°	3461	3562	3521
30°	3392	3507	3475
35°	3315	3447	3415
40°	3229	3378	3335
45°	3139	3297	3235
50°	3044	3191	3108
55°	2934	3071	2976
60°	2808	2926	2835
65°	2648	2748	2649
70°	2436	2533	2409
75°	2144	2242	2113
80°	1742	1819	1723
85°	1216	1291	1260



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.8	3.6
10°-20°	183.7	10.2
20°-30°	274.0	15.1
30°-40°	324.7	17.9
40°-50°	328.6	18.2
50°-60°	287.0	15.9
60°-70°	209.7	11.6
70°-80°	111.6	6.2
80°-90°	25.8	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°	522.6	28.9
0°-40°	847.3	46.8
0°-60°	1462.8	80.8
0°-90°	1809.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1809.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	688	688	688	688	688	
5°	680	681	686	687	682	64
15°	644	648	654	658	650	181
25°	583	590	600	602	593	269
35°	505	512	525	528	520	316
45°	412	420	433	434	425	318
55°	313	319	327	322	317	279
65°	208	212	216	212	208	206
75°	103	106	108	104	102	110
85°	20	20	21	21	20	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	688.4	688.4	688.4	688.4	688.4
2.5°	683.0	685.3	687.6	688.6	683.0
5°	679.5	680.7	685.8	687.4	681.6
7.5°	673.6	675.5	680.5	681.2	675.6
10°	665.5	669.0	672.3	675.9	669.1
12.5°	655.3	659.9	665.5	666.2	661.0
15°	643.7	648.0	654.1	658.1	649.5
17.5°	630.8	635.0	642.9	643.6	638.4
20°	616.4	621.6	631.0	632.7	623.4
22.5°	600.1	607.0	614.9	616.5	609.7
25°	582.9	590.1	599.8	602.1	593.0
27.5°	565.0	571.9	582.8	584.4	576.7
30°	545.8	552.2	564.3	566.9	559.1
32.5°	526.3	532.7	546.0	548.3	540.7
35°	504.6	512.5	524.6	528.3	519.7
37.5°	482.5	490.2	503.9	507.2	498.1
40°	459.6	467.2	480.8	483.5	474.7
42.5°	436.2	443.8	458.3	458.8	451.4
45°	412.4	419.7	433.2	433.5	425.0
47.5°	388.1	395.5	407.5	406.2	398.1
50°	363.6	370.6	381.1	378.4	371.2
52.5°	338.2	345.0	355.0	350.5	343.7
55°	312.7	319.0	327.3	322.5	317.2
57.5°	286.9	293.3	299.7	294.9	290.3
60°	260.9	266.5	271.8	266.9	263.4
62.5°	234.5	239.3	243.9	239.2	235.9
65°	207.9	212.1	215.8	211.5	208.0
67.5°	181.3	184.9	188.4	183.9	180.2
70°	154.8	157.9	161.0	156.4	153.1
72.5°	128.6	131.3	134.1	129.7	126.7
75°	103.1	105.5	107.8	103.9	101.6
77.5°	78.8	80.8	82.4	79.9	77.7
80°	56.2	57.7	58.7	57.7	55.6
82.5°	36.1	37.2	37.7	37.7	36.3
85°	19.7	20.0	20.9	21.2	20.4
87.5°	7.6	8.1	8.3	9.0	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)