

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: P488347

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-1STD-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: P488347
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-LD4-1STD-40-120-EDD
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

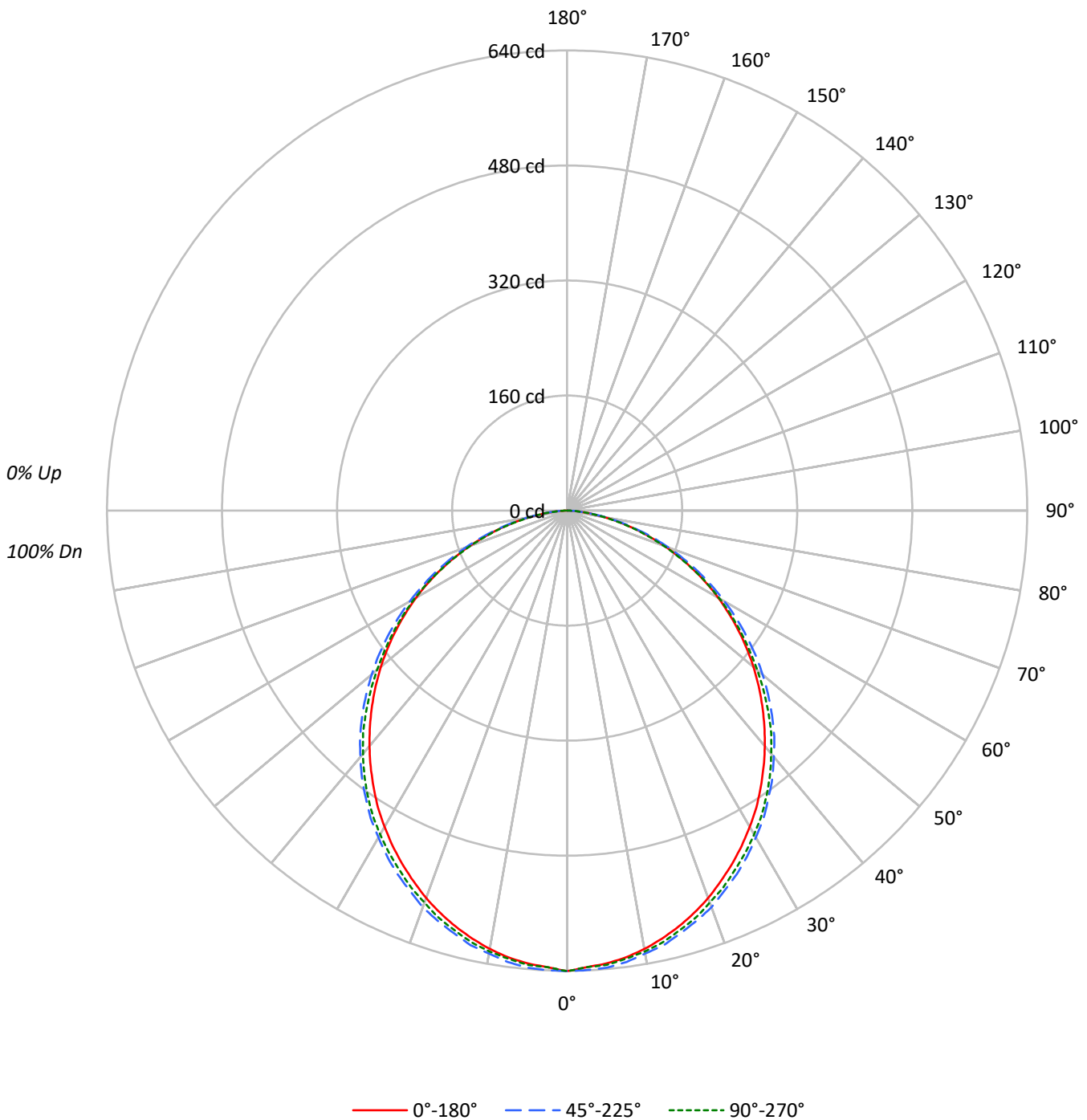
Lumens per Lamp: N/A
Luminaire Lumens: 1684.0 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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°	3447	3447	3447
5°	3415	3447	3426
10°	3384	3418	3402
15°	3338	3391	3368
20°	3285	3363	3322
25°	3221	3314	3276
30°	3156	3263	3233
35°	3085	3207	3177
40°	3004	3143	3103
45°	2920	3067	3009
50°	2833	2969	2892
55°	2730	2857	2770
60°	2613	2722	2638
65°	2463	2557	2464
70°	2266	2357	2241
75°	1996	2086	1965
80°	1621	1692	1602
85°	1130	1204	1173



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.3	3.6
10°-20°	170.9	10.2
20°-30°	255.0	15.1
30°-40°	302.1	17.9
40°-50°	305.7	18.2
50°-60°	267.0	15.9
60°-70°	195.1	11.6
70°-80°	103.8	6.2
80°-90°	24.0	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°	486.2	28.9
0°-40°	788.4	46.8
0°-60°	1361.1	80.8
0°-90°	1684.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1684.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	640	640	640	640	640	
5°	632	633	638	640	634	60
15°	599	603	609	612	604	169
25°	542	549	558	560	552	250
35°	470	477	488	492	484	294
45°	384	390	403	403	395	296
55°	291	297	304	300	295	260
65°	193	197	201	197	194	191
75°	96	98	100	97	94	102
85°	18	19	20	20	19	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	640.5	640.5	640.5	640.5	640.5
2.5°	635.5	637.6	639.7	640.7	635.5
5°	632.2	633.4	638.1	639.6	634.2
7.5°	626.7	628.5	633.1	633.8	628.6
10°	619.2	622.4	625.5	628.9	622.5
12.5°	609.7	614.0	619.2	619.8	615.0
15°	599.0	603.0	608.6	612.3	604.4
17.5°	586.9	590.8	598.2	598.8	594.0
20°	573.5	578.3	587.1	588.7	580.1
22.5°	558.3	564.8	572.1	573.6	567.3
25°	542.4	549.0	558.1	560.2	551.7
27.5°	525.7	532.1	542.3	543.8	536.6
30°	507.8	513.8	525.0	527.5	520.2
32.5°	489.6	495.6	508.1	510.1	503.1
35°	469.5	476.8	488.1	491.5	483.6
37.5°	448.9	456.1	468.9	472.0	463.4
40°	427.6	434.7	447.3	449.9	441.7
42.5°	405.9	413.0	426.4	426.8	420.0
45°	383.7	390.5	403.0	403.4	395.4
47.5°	361.1	368.0	379.2	377.9	370.5
50°	338.3	344.8	354.6	352.1	345.4
52.5°	314.7	321.0	330.3	326.1	319.8
55°	290.9	296.8	304.5	300.1	295.2
57.5°	266.9	272.9	278.8	274.4	270.1
60°	242.8	248.0	252.9	248.3	245.1
62.5°	218.2	222.7	226.9	222.6	219.5
65°	193.4	197.3	200.8	196.8	193.5
67.5°	168.7	172.0	175.2	171.1	167.7
70°	144.0	146.9	149.8	145.6	142.4
72.5°	119.7	122.2	124.8	120.7	117.9
75°	96.0	98.2	100.3	96.6	94.5
77.5°	73.3	75.2	76.7	74.3	72.3
80°	52.3	53.7	54.6	53.7	51.7
82.5°	33.6	34.6	35.1	35.0	33.8
85°	18.3	18.6	19.5	19.7	19.0
87.5°	7.1	7.5	7.7	8.3	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)