

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: P488345

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-1STD-35-120-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: P488345
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-35-120-EDD
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

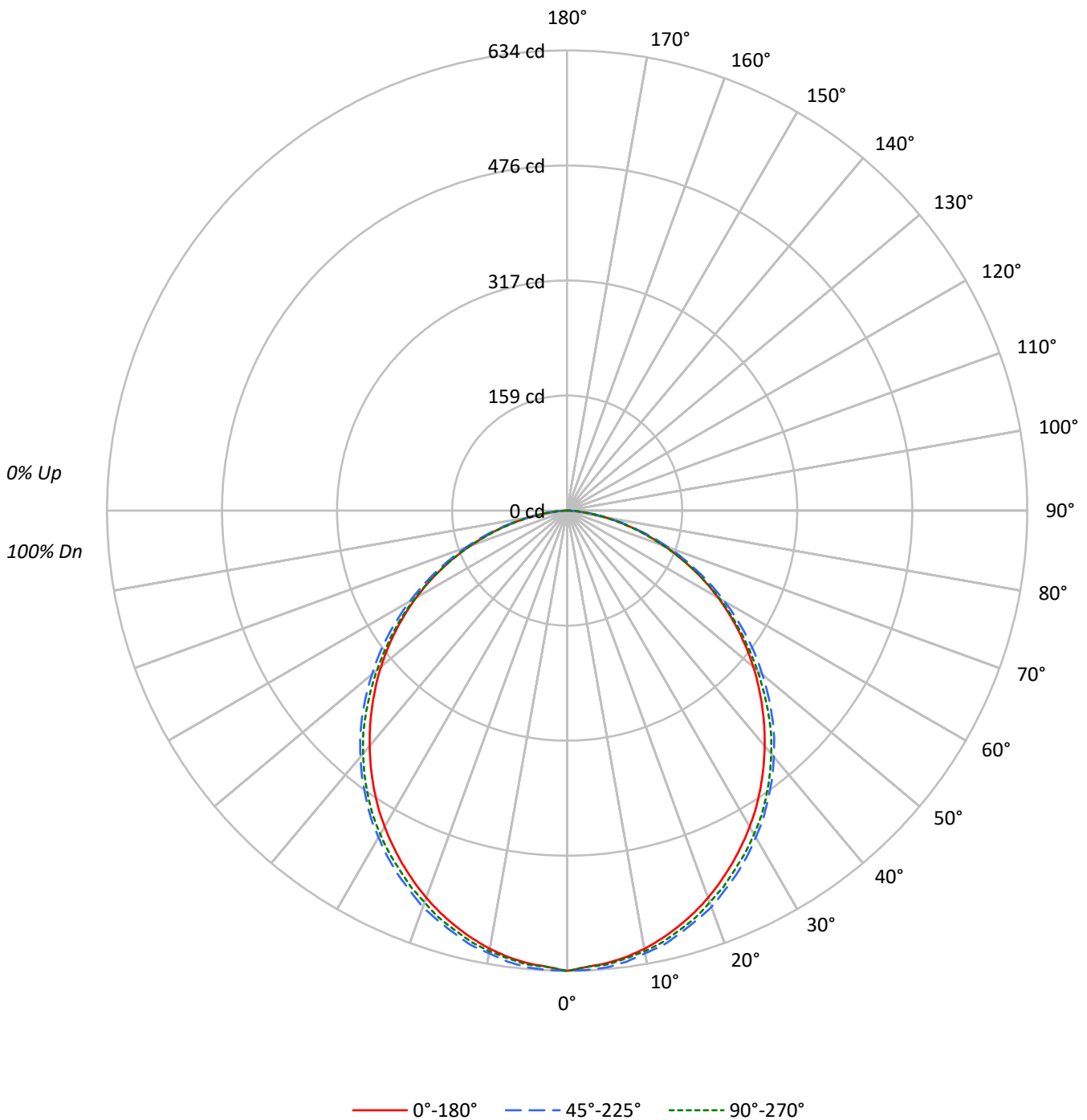
Lumens per Lamp: N/A
Luminaire Lumens: 1667.3 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	3413	3413	3413
5°	3381	3413	3392
10°	3351	3384	3368
15°	3304	3358	3334
20°	3252	3329	3289
25°	3189	3282	3244
30°	3125	3230	3200
35°	3054	3175	3146
40°	2975	3112	3072
45°	2892	3037	2980
50°	2804	2940	2863
55°	2702	2829	2742
60°	2588	2695	2611
65°	2439	2532	2440
70°	2244	2334	2219
75°	1975	2065	1946
80°	1605	1674	1587
85°	1118	1192	1161



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.7	3.6
10°-20°	169.3	10.2
20°-30°	252.4	15.1
30°-40°	299.1	17.9
40°-50°	302.7	18.2
50°-60°	264.3	15.9
60°-70°	193.2	11.6
70°-80°	102.8	6.2
80°-90°	23.8	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°	481.4	28.9
0°-40°	780.6	46.8
0°-60°	1347.6	80.8
0°-90°	1667.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1667.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	634	634	634	634	634	
5°	626	627	632	633	628	59
15°	593	597	603	606	598	167
25°	537	544	553	555	546	247
35°	465	472	483	487	479	291
45°	380	387	399	399	392	293
55°	288	294	302	297	292	257
65°	192	195	199	195	192	189
75°	95	97	99	96	94	101
85°	18	18	19	20	19	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	634.2	634.2	634.2	634.2	634.2
2.5°	629.2	631.3	633.4	634.3	629.2
5°	625.9	627.1	631.8	633.3	627.9
7.5°	620.5	622.3	626.8	627.5	622.4
10°	613.1	616.3	619.3	622.6	616.3
12.5°	603.7	608.0	613.1	613.7	608.9
15°	593.0	597.0	602.6	606.2	598.4
17.5°	581.1	585.0	592.2	592.9	588.1
20°	567.8	572.6	581.3	582.8	574.3
22.5°	552.8	559.2	566.5	567.9	561.6
25°	537.0	543.6	552.6	554.6	546.2
27.5°	520.5	526.8	536.9	538.4	531.3
30°	502.8	508.7	519.8	522.3	515.0
32.5°	484.8	490.7	503.0	505.1	498.1
35°	464.8	472.1	483.3	486.6	478.8
37.5°	444.5	451.6	464.2	467.3	458.8
40°	423.4	430.4	442.9	445.4	437.3
42.5°	401.9	408.9	422.2	422.6	415.9
45°	379.9	386.6	399.0	399.4	391.5
47.5°	357.5	364.3	375.4	374.2	366.8
50°	334.9	341.4	351.1	348.6	341.9
52.5°	311.5	317.8	327.0	322.9	316.6
55°	288.0	293.8	301.5	297.1	292.2
57.5°	264.3	270.2	276.1	271.6	267.4
60°	240.4	245.5	250.4	245.9	242.6
62.5°	216.1	220.5	224.7	220.4	217.3
65°	191.5	195.4	198.8	194.9	191.6
67.5°	167.0	170.3	173.5	169.4	166.0
70°	142.6	145.4	148.3	144.1	141.0
72.5°	118.5	121.0	123.6	119.5	116.8
75°	95.0	97.2	99.3	95.7	93.6
77.5°	72.6	74.5	75.9	73.6	71.6
80°	51.8	53.2	54.0	53.1	51.2
82.5°	33.3	34.3	34.8	34.7	33.4
85°	18.1	18.4	19.3	19.5	18.8
87.5°	7.0	7.5	7.7	8.3	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)