

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: P488315

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-1HI-20-120-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: P488315
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-20-120-EDD
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

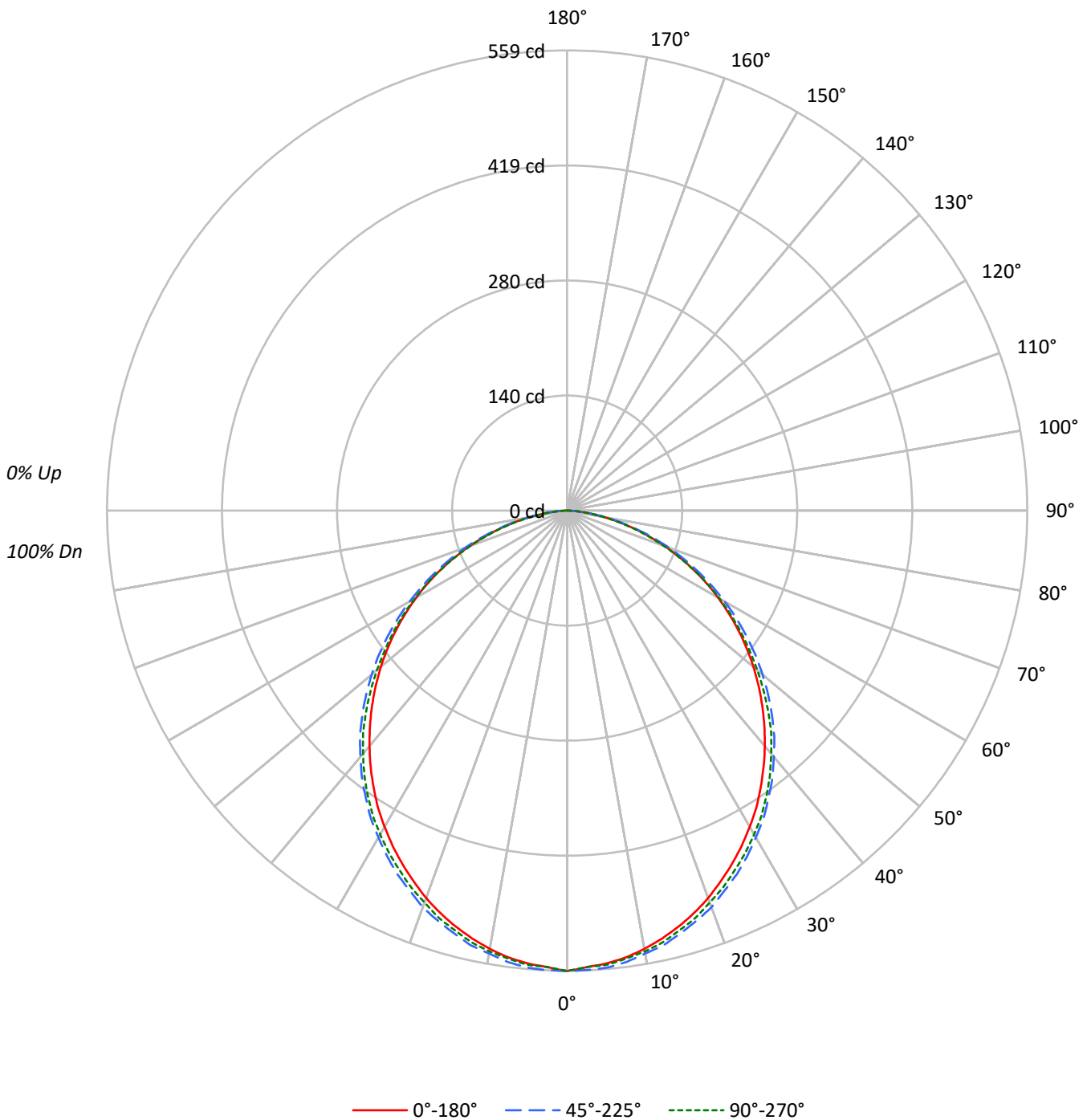
Lumens per Lamp: N/A
Luminaire Lumens: 1470.8 lumens
Efficiency: N/A
Efficacy: 68.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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	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					100			
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85					85			
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60					60			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51					51			
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45					45			
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39					39			
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3011	3011	3011
5°	2983	3011	2992
10°	2955	2986	2971
15°	2915	2962	2941
20°	2869	2937	2901
25°	2813	2895	2862
30°	2756	2849	2823
35°	2694	2801	2775
40°	2624	2745	2710
45°	2551	2679	2629
50°	2474	2593	2525
55°	2384	2496	2419
60°	2282	2377	2303
65°	2151	2234	2152
70°	1980	2060	1958
75°	1743	1822	1716
80°	1416	1478	1401
85°	988	1050	1025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.7	3.6
10°-20°	149.3	10.2
20°-30°	222.7	15.1
30°-40°	263.9	17.9
40°-50°	267.0	18.2
50°-60°	233.2	15.9
60°-70°	170.4	11.6
70°-80°	90.7	6.2
80°-90°	21.0	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°	424.7	28.9
0°-40°	688.6	46.8
0°-60°	1188.8	80.8
0°-90°	1470.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1470.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	559	559	559	559	559	
5°	552	553	557	559	554	52
15°	523	527	532	535	528	147
25°	474	480	488	489	482	218
35°	410	416	426	429	422	256
45°	335	341	352	352	345	259
55°	254	259	266	262	258	227
65°	169	172	175	172	169	167
75°	84	86	88	84	82	89
85°	16	16	17	17	17	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	559.4	559.4	559.4	559.4	559.4
2.5°	555.1	556.9	558.7	559.6	555.0
5°	552.2	553.2	557.3	558.6	553.9
7.5°	547.4	548.9	553.0	553.6	549.0
10°	540.8	543.6	546.3	549.2	543.7
12.5°	532.5	536.3	540.8	541.4	537.2
15°	523.1	526.6	531.6	534.8	527.8
17.5°	512.6	516.0	522.4	523.0	518.8
20°	500.9	505.1	512.8	514.2	506.6
22.5°	487.6	493.3	499.7	501.0	495.4
25°	473.7	479.5	487.5	489.3	481.9
27.5°	459.1	464.7	473.6	474.9	468.7
30°	443.5	448.8	458.5	460.7	454.3
32.5°	427.7	432.9	443.7	445.5	439.4
35°	410.1	416.5	426.3	429.3	422.3
37.5°	392.1	398.3	409.5	412.2	404.7
40°	373.5	379.7	390.7	392.9	385.7
42.5°	354.5	360.7	372.5	372.8	366.9
45°	335.1	341.0	352.0	352.3	345.4
47.5°	315.4	321.4	331.2	330.1	323.6
50°	295.5	301.2	309.7	307.5	301.6
52.5°	274.8	280.4	288.5	284.8	279.3
55°	254.1	259.2	266.0	262.1	257.8
57.5°	233.1	238.3	243.5	239.6	235.9
60°	212.0	216.6	220.8	216.9	214.0
62.5°	190.6	194.5	198.2	194.4	191.7
65°	168.9	172.4	175.4	171.9	169.0
67.5°	147.3	150.3	153.1	149.4	146.5
70°	125.8	128.3	130.9	127.1	124.4
72.5°	104.5	106.7	109.0	105.4	103.0
75°	83.8	85.7	87.6	84.4	82.5
77.5°	64.1	65.7	67.0	64.9	63.1
80°	45.7	46.9	47.7	46.9	45.2
82.5°	29.4	30.3	30.7	30.6	29.5
85°	16.0	16.3	17.0	17.2	16.6
87.5°	6.2	6.6	6.8	7.3	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)