

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: P488556

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-1STD-27-120-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: P488556
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-12-4-INS-A12125-LD4-1STD-27-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

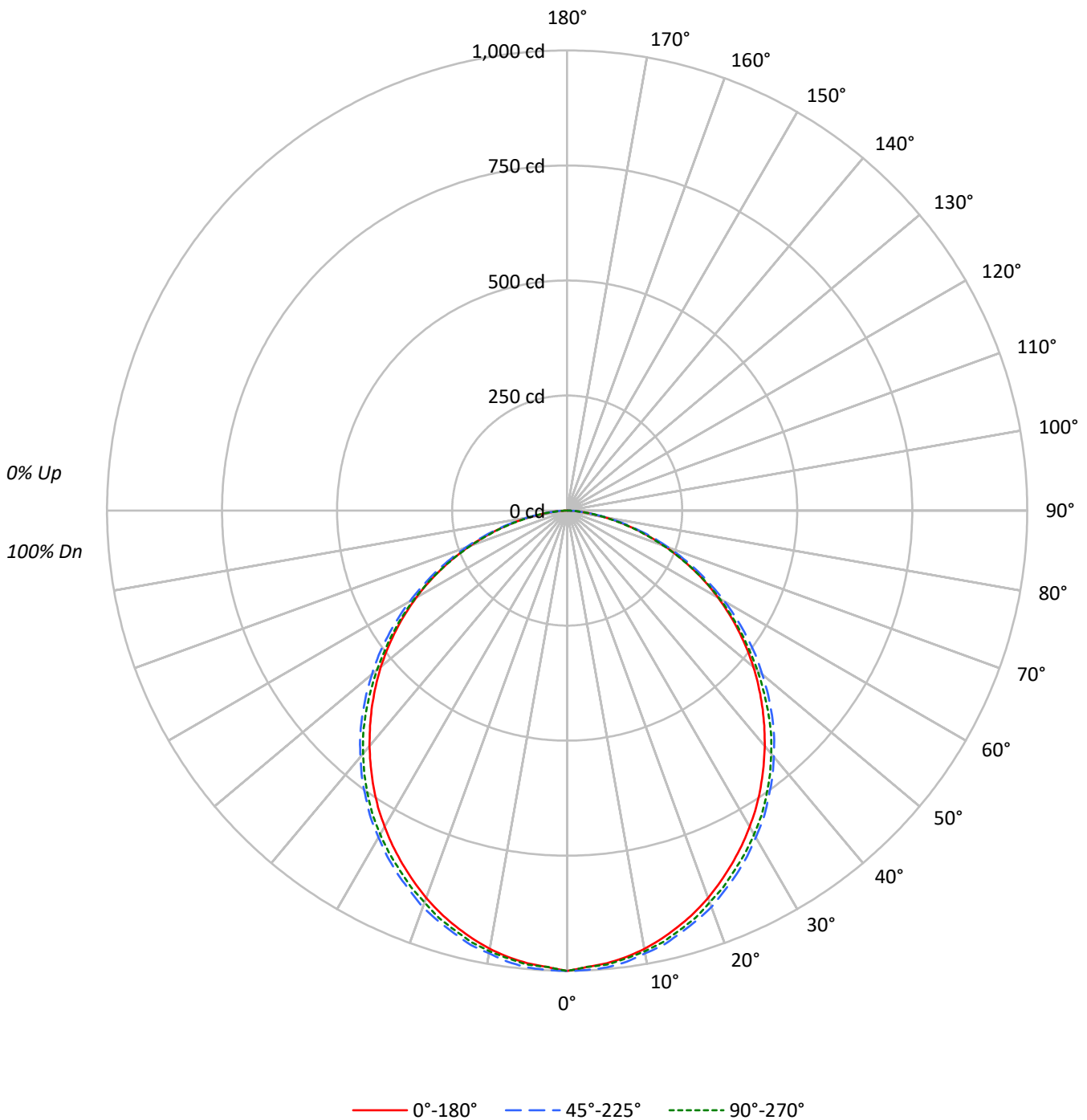
Lumens per Lamp: N/A
Luminaire Lumens: 2630.3 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	2692	2692	2692
5°	2667	2692	2676
10°	2643	2670	2657
15°	2606	2648	2630
20°	2565	2626	2594
25°	2515	2588	2559
30°	2464	2548	2525
35°	2409	2505	2481
40°	2347	2454	2423
45°	2281	2396	2350
50°	2212	2319	2258
55°	2132	2231	2163
60°	2041	2126	2060
65°	1924	1997	1925
70°	1769	1841	1750
75°	1559	1629	1535
80°	1266	1322	1252
85°	883	939	917



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.2	3.6
10°-20°	267.0	10.2
20°-30°	398.2	15.1
30°-40°	471.9	17.9
40°-50°	477.5	18.2
50°-60°	417.0	15.9
60°-70°	304.7	11.6
70°-80°	162.2	6.2
80°-90°	37.5	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°	759.5	28.9
0°-40°	1231.4	46.8
0°-60°	2125.9	80.8
0°-90°	2630.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2630.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1000	1000	1000	1000	1000	
5°	987	989	997	999	991	94
15°	936	942	951	956	944	264
25°	847	858	872	875	862	390
35°	733	745	762	768	755	459
45°	599	610	630	630	618	462
55°	454	464	476	469	461	406
65°	302	308	314	307	302	299
75°	150	153	157	151	148	159
85°	29	29	30	31	30	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1000.5	1000.5	1000.5	1000.5	1000.5
2.5°	992.7	995.9	999.2	1000.7	992.6
5°	987.4	989.3	996.7	999.0	990.6
7.5°	978.9	981.7	988.9	989.9	981.8
10°	967.2	972.2	977.0	982.2	972.3
12.5°	952.3	959.1	967.2	968.2	960.7
15°	935.5	941.8	950.6	956.4	944.0
17.5°	916.8	922.8	934.3	935.3	927.8
20°	895.8	903.3	917.1	919.5	906.0
22.5°	872.1	882.2	893.6	895.9	886.0
25°	847.1	857.6	871.7	875.0	861.7
27.5°	821.1	831.1	847.0	849.3	838.2
30°	793.1	802.5	820.0	823.9	812.5
32.5°	764.8	774.2	793.6	796.8	785.7
35°	733.3	744.8	762.4	767.7	755.3
37.5°	701.2	712.4	732.4	737.2	723.8
40°	668.0	679.0	698.7	702.7	689.8
42.5°	634.0	645.0	666.1	666.7	656.1
45°	599.3	609.9	629.5	630.0	617.6
47.5°	564.0	574.8	592.3	590.3	578.6
50°	528.4	538.6	553.9	550.0	539.4
52.5°	491.5	501.4	515.9	509.4	499.5
55°	454.4	463.5	475.6	468.8	461.0
57.5°	417.0	426.2	435.5	428.5	421.8
60°	379.2	387.3	395.0	387.9	382.8
62.5°	340.9	347.8	354.4	347.6	342.8
65°	302.1	308.2	313.7	307.4	302.3
67.5°	263.5	268.7	273.7	267.3	261.9
70°	224.9	229.4	234.0	227.3	222.4
72.5°	186.9	190.9	194.9	188.5	184.2
75°	149.9	153.3	156.7	150.9	147.6
77.5°	114.6	117.5	119.8	116.1	112.9
80°	81.7	83.9	85.3	83.8	80.8
82.5°	52.5	54.1	54.8	54.7	52.7
85°	28.6	29.1	30.4	30.8	29.7
87.5°	11.0	11.8	12.1	13.0	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)