

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: P488560

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-1STD-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: P488560
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-35-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

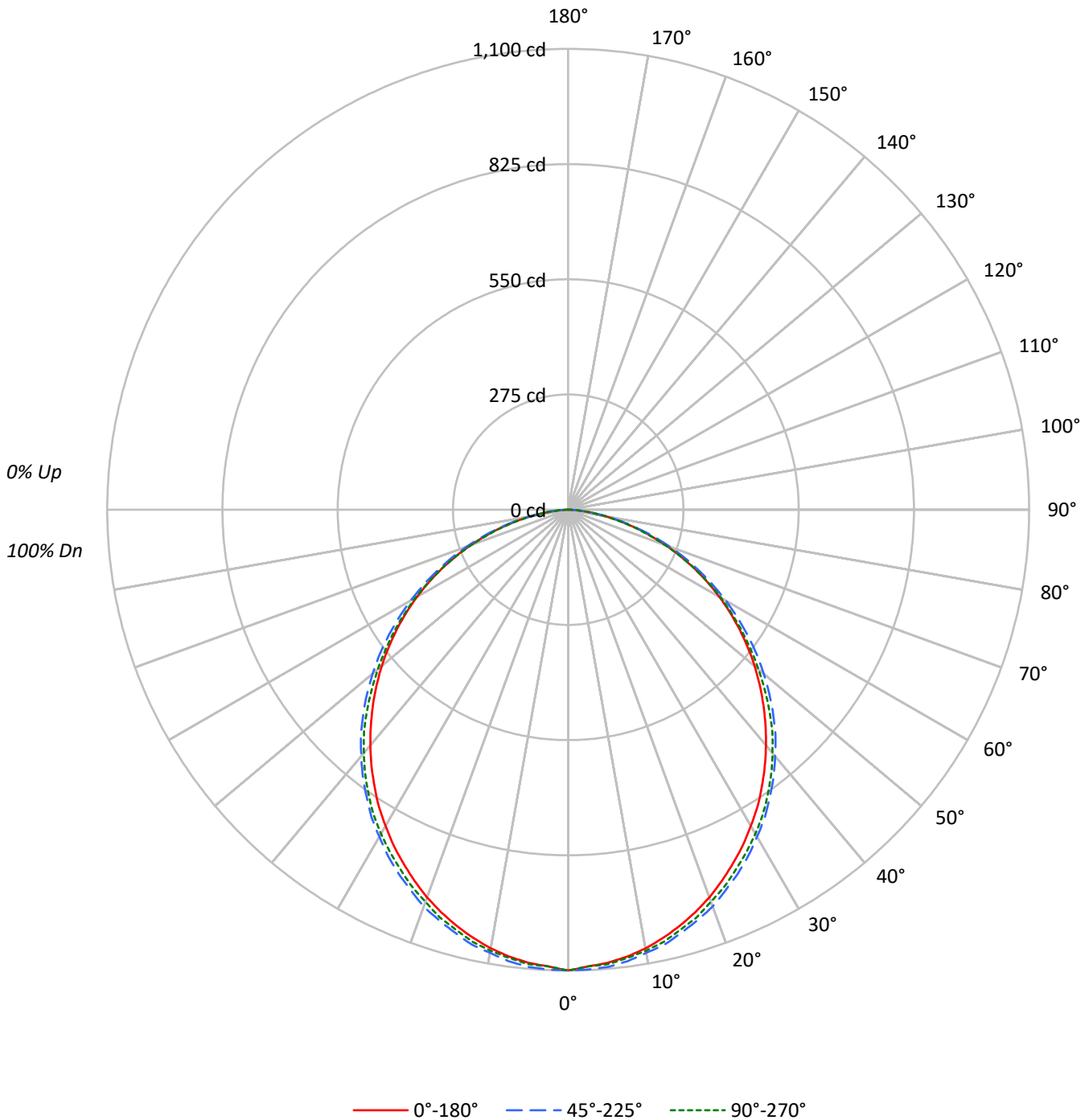
Lumens per Lamp: N/A
Luminaire Lumens: 2891.3 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (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	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°	2959	2959	2959
5°	2932	2959	2941
10°	2905	2935	2920
15°	2865	2911	2891
20°	2820	2887	2852
25°	2765	2845	2812
30°	2709	2801	2775
35°	2648	2753	2728
40°	2579	2698	2664
45°	2507	2633	2584
50°	2431	2549	2483
55°	2343	2453	2378
60°	2243	2336	2264
65°	2115	2195	2116
70°	1946	2024	1924
75°	1713	1790	1686
80°	1392	1452	1376
85°	969	1034	1010



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.6	3.6
10°-20°	293.5	10.2
20°-30°	437.8	15.1
30°-40°	518.7	17.9
40°-50°	524.9	18.2
50°-60°	458.4	15.9
60°-70°	335.0	11.6
70°-80°	178.2	6.2
80°-90°	41.2	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°	834.8	28.9
0°-40°	1353.6	46.8
0°-60°	2336.9	80.8
0°-90°	2891.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2891.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1100	1100	1100	1100	1100	
5°	1085	1088	1096	1098	1089	103
15°	1028	1035	1045	1051	1038	290
25°	931	943	958	962	947	429
35°	806	819	838	844	830	504
45°	659	670	692	692	679	508
55°	500	510	523	515	507	446
65°	332	339	345	338	332	329
75°	165	168	172	166	162	175
85°	31	32	34	34	33	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1099.7	1099.7	1099.7	1099.7	1099.7
2.5°	1091.2	1094.7	1098.4	1100.0	1091.0
5°	1085.4	1087.5	1095.6	1098.1	1088.9
7.5°	1076.0	1079.1	1087.0	1088.2	1079.2
10°	1063.2	1068.7	1074.0	1079.7	1068.8
12.5°	1046.8	1054.3	1063.2	1064.2	1056.0
15°	1028.4	1035.2	1045.0	1051.3	1037.6
17.5°	1007.7	1014.4	1027.0	1028.1	1019.9
20°	984.7	993.0	1008.1	1010.7	995.9
22.5°	958.6	969.7	982.3	984.8	973.9
25°	931.2	942.7	958.2	961.8	947.2
27.5°	902.6	913.6	931.1	933.6	921.3
30°	871.8	882.2	901.4	905.6	893.2
32.5°	840.7	851.0	872.3	875.9	863.7
35°	806.1	818.7	838.0	843.9	830.3
37.5°	770.8	783.0	805.0	810.3	795.6
40°	734.2	746.4	768.0	772.4	758.3
42.5°	696.9	709.0	732.2	732.9	721.2
45°	658.7	670.4	692.0	692.5	678.9
47.5°	620.0	631.8	651.0	648.9	636.0
50°	580.8	592.0	608.9	604.5	593.0
52.5°	540.2	551.1	567.1	560.0	549.1
55°	499.5	509.5	522.8	515.3	506.8
57.5°	458.3	468.5	478.7	471.0	463.7
60°	416.8	425.8	434.1	426.4	420.7
62.5°	374.7	382.4	389.6	382.1	376.9
65°	332.1	338.8	344.8	337.9	332.3
67.5°	289.7	295.4	300.9	293.8	287.9
70°	247.3	252.2	257.2	249.9	244.5
72.5°	205.4	209.8	214.3	207.2	202.5
75°	164.8	168.5	172.2	165.9	162.2
77.5°	125.9	129.1	131.7	127.6	124.1
80°	89.8	92.2	93.7	92.1	88.8
82.5°	57.7	59.5	60.3	60.2	58.0
85°	31.4	32.0	33.5	33.8	32.7
87.5°	12.1	12.9	13.3	14.3	13.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)