

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: P488920

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-2STD-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: P488920
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-24-2-INS-A12125-LD4-2STD-35-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

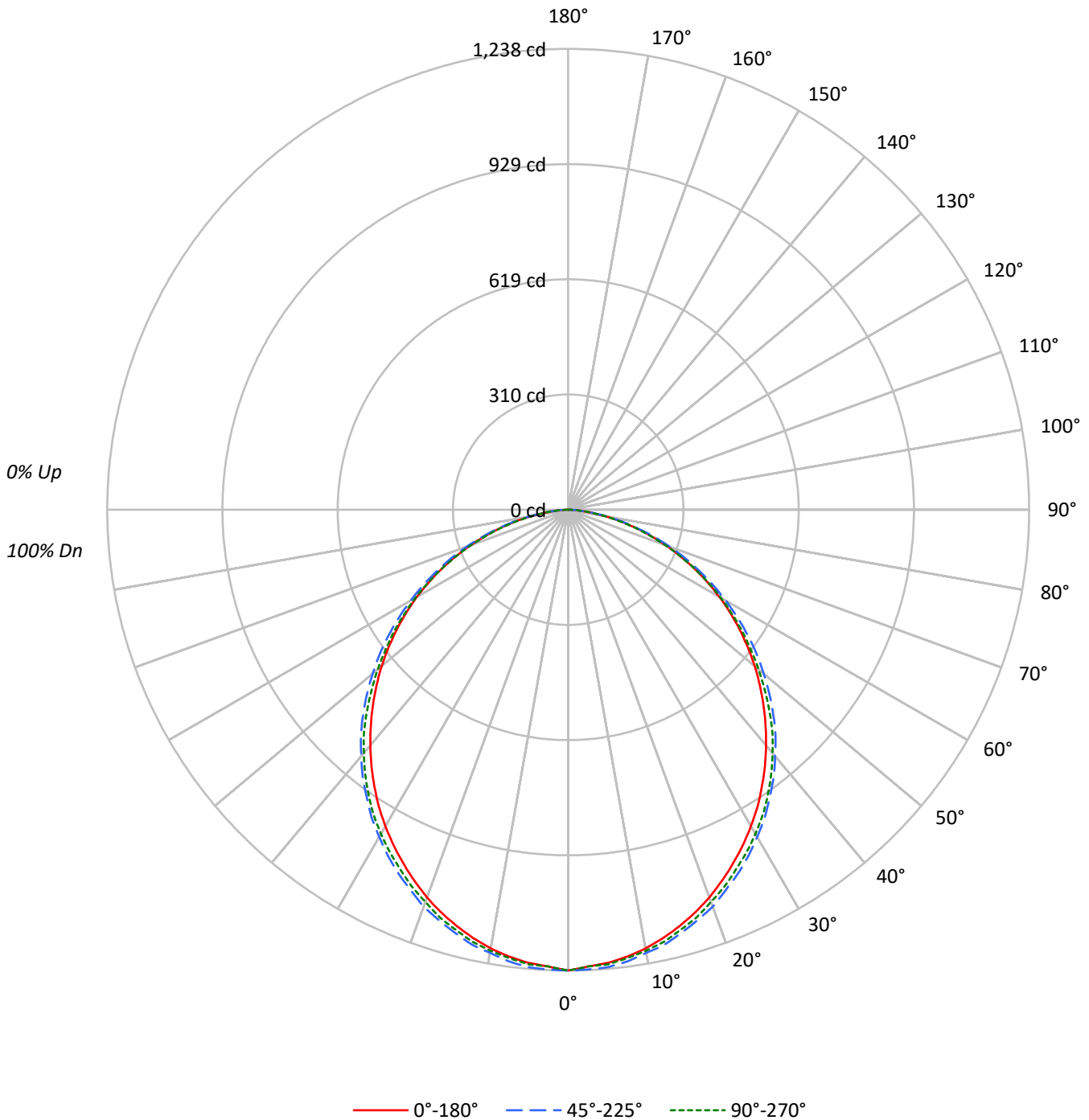
Lumens per Lamp: N/A
Luminaire Lumens: 3254.9 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	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°	3331	3331	3331
5°	3301	3332	3311
10°	3271	3304	3288
15°	3225	3277	3254
20°	3174	3250	3211
25°	3113	3203	3166
30°	3050	3153	3124
35°	2981	3099	3071
40°	2904	3037	2999
45°	2822	2965	2909
50°	2737	2870	2794
55°	2638	2761	2677
60°	2526	2630	2549
65°	2380	2471	2382
70°	2190	2279	2166
75°	1929	2016	1900
80°	1567	1635	1550
85°	1090	1164	1136



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.6	3.6
10°-20°	330.4	10.2
20°-30°	492.8	15.1
30°-40°	584.0	17.9
40°-50°	590.9	18.2
50°-60°	516.1	15.9
60°-70°	377.1	11.6
70°-80°	200.7	6.2
80°-90°	46.4	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°	939.8	28.9
0°-40°	1523.8	46.8
0°-60°	2630.7	80.8
0°-90°	3254.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3254.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1238	1238	1238	1238	1238	
5°	1222	1224	1233	1236	1226	116
15°	1158	1165	1176	1184	1168	326
25°	1048	1061	1079	1083	1066	483
35°	907	922	943	950	935	567
45°	742	755	779	780	764	572
55°	562	574	589	580	570	503
65°	374	381	388	380	374	370
75°	186	190	194	187	183	197
85°	35	36	38	38	37	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1238.0	1238.0	1238.0	1238.0	1238.0
2.5°	1228.4	1232.4	1236.5	1238.3	1228.2
5°	1221.9	1224.2	1233.4	1236.2	1225.8
7.5°	1211.3	1214.8	1223.7	1225.0	1215.0
10°	1196.9	1203.1	1209.0	1215.5	1203.2
12.5°	1178.5	1186.8	1196.9	1198.1	1188.8
15°	1157.7	1165.4	1176.4	1183.5	1168.1
17.5°	1134.5	1142.0	1156.1	1157.4	1148.1
20°	1108.5	1117.8	1134.9	1137.8	1121.2
22.5°	1079.1	1091.6	1105.8	1108.7	1096.4
25°	1048.3	1061.2	1078.7	1082.7	1066.4
27.5°	1016.1	1028.4	1048.2	1051.0	1037.2
30°	981.5	993.1	1014.8	1019.5	1005.5
32.5°	946.4	958.0	982.0	986.0	972.3
35°	907.4	921.6	943.4	950.0	934.7
37.5°	867.7	881.5	906.3	912.2	895.7
40°	826.6	840.2	864.6	869.5	853.7
42.5°	784.5	798.2	824.2	825.0	811.9
45°	741.6	754.7	779.0	779.6	764.3
47.5°	698.0	711.3	732.9	730.5	716.0
50°	653.9	666.5	685.5	680.6	667.5
52.5°	608.2	620.4	638.4	630.4	618.1
55°	562.3	573.6	588.6	580.1	570.5
57.5°	516.0	527.4	538.9	530.3	522.0
60°	469.3	479.3	488.7	480.0	473.7
62.5°	421.8	430.4	438.6	430.2	424.2
65°	373.8	381.4	388.1	380.4	374.1
67.5°	326.1	332.5	338.7	330.7	324.2
70°	278.4	283.9	289.6	281.3	275.3
72.5°	231.3	236.2	241.2	233.2	227.9
75°	185.5	189.7	193.9	186.8	182.7
77.5°	141.8	145.4	148.2	143.7	139.7
80°	101.1	103.8	105.5	103.7	100.0
82.5°	65.0	66.9	67.8	67.7	65.3
85°	35.3	36.0	37.7	38.1	36.8
87.5°	13.7	14.6	15.0	16.1	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)