

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: P488940

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-3LO-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: P488940
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-LD4-3LO-27-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

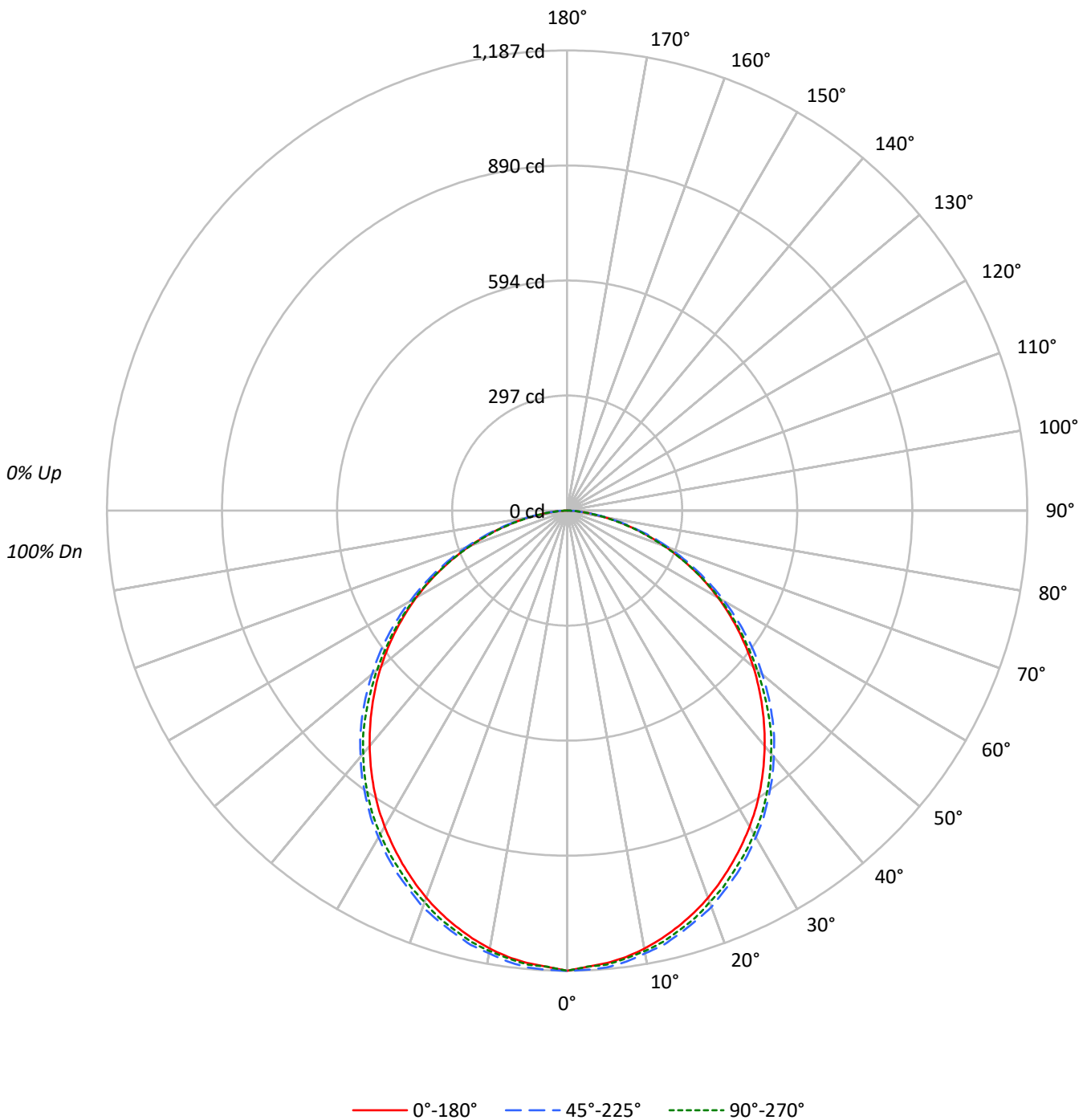
Lumens per Lamp: N/A
Luminaire Lumens: 3121.2 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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°	3195	3195	3195
5°	3165	3195	3175
10°	3136	3168	3153
15°	3093	3143	3121
20°	3044	3116	3079
25°	2985	3071	3036
30°	2925	3024	2996
35°	2859	2972	2944
40°	2784	2912	2876
45°	2706	2843	2789
50°	2625	2752	2680
55°	2530	2648	2567
60°	2422	2523	2444
65°	2283	2370	2284
70°	2100	2185	2077
75°	1850	1933	1821
80°	1503	1568	1486
85°	1047	1115	1090



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.8	3.6
10°-20°	316.8	10.2
20°-30°	472.6	15.1
30°-40°	560.0	17.9
40°-50°	566.6	18.2
50°-60°	494.9	15.9
60°-70°	361.6	11.6
70°-80°	192.4	6.2
80°-90°	44.5	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°	901.2	28.9
0°-40°	1461.2	46.8
0°-60°	2522.7	80.8
0°-90°	3121.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3121.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1187	1187	1187	1187	1187	
5°	1172	1174	1183	1186	1175	111
15°	1110	1118	1128	1135	1120	313
25°	1005	1018	1034	1038	1023	463
35°	870	884	905	911	896	544
45°	711	724	747	748	733	549
55°	539	550	564	556	547	482
65°	358	366	372	365	359	355
75°	178	182	186	179	175	189
85°	34	34	36	36	35	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1187.2	1187.2	1187.2	1187.2	1187.2
2.5°	1177.9	1181.8	1185.7	1187.4	1177.8
5°	1171.7	1174.0	1182.7	1185.5	1175.4
7.5°	1161.6	1164.9	1173.5	1174.7	1165.1
10°	1147.7	1153.7	1159.4	1165.5	1153.8
12.5°	1130.0	1138.1	1147.7	1148.8	1139.9
15°	1110.1	1117.6	1128.1	1134.9	1120.2
17.5°	1087.9	1095.0	1108.6	1109.9	1101.0
20°	1063.0	1071.9	1088.2	1091.1	1075.1
22.5°	1034.8	1046.8	1060.4	1063.1	1051.4
25°	1005.2	1017.6	1034.4	1038.3	1022.6
27.5°	974.3	986.2	1005.1	1007.8	994.6
30°	941.2	952.3	973.1	977.7	964.2
32.5°	907.5	918.7	941.7	945.5	932.4
35°	870.2	883.8	904.7	911.0	896.3
37.5°	832.1	845.3	869.1	874.7	858.9
40°	792.6	805.7	829.1	833.8	818.6
42.5°	752.3	765.4	790.4	791.1	778.5
45°	711.1	723.7	747.0	747.6	732.9
47.5°	669.3	682.0	702.8	700.5	686.6
50°	627.0	639.1	657.3	652.6	640.1
52.5°	583.2	595.0	612.2	604.5	592.7
55°	539.2	550.1	564.4	556.2	547.1
57.5°	494.8	505.8	516.8	508.5	500.6
60°	450.0	459.6	468.7	460.3	454.2
62.5°	404.5	412.8	420.6	412.5	406.8
65°	358.5	365.8	372.2	364.8	358.7
67.5°	312.7	318.9	324.8	317.1	310.8
70°	266.9	272.2	277.7	269.8	264.0
72.5°	221.8	226.5	231.3	223.6	218.6
75°	177.9	182.0	185.9	179.1	175.1
77.5°	135.9	139.4	142.1	137.8	134.0
80°	97.0	99.6	101.2	99.4	95.9
82.5°	62.3	64.2	65.1	64.9	62.6
85°	33.9	34.5	36.1	36.5	35.3
87.5°	13.1	14.0	14.3	15.5	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)