

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: P488579

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-2LO-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: P488579
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-LD4-2LO-20-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

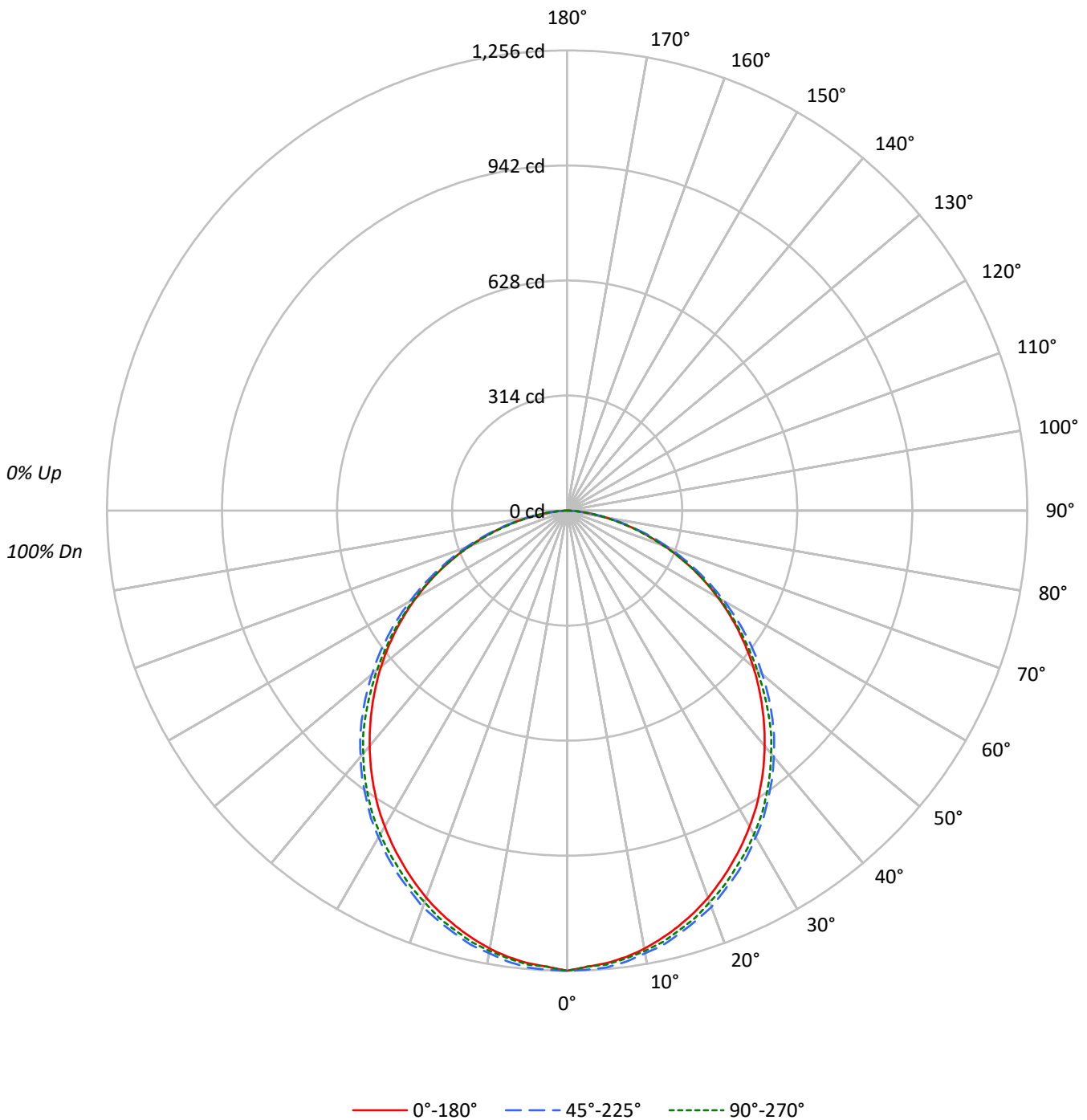
Lumens per Lamp: N/A
Luminaire Lumens: 3302.2 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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

TEST NUMBER: P488579

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-2LO-20-120-EDD

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°	3380	3380	3380
5°	3349	3380	3359
10°	3318	3352	3336
15°	3272	3325	3302
20°	3221	3297	3257
25°	3158	3249	3212
30°	3094	3199	3170
35°	3024	3144	3115
40°	2946	3081	3042
45°	2863	3008	2951
50°	2777	2911	2835
55°	2676	2801	2715
60°	2562	2668	2586
65°	2415	2507	2416
70°	2222	2312	2198
75°	1957	2045	1927
80°	1590	1658	1571
85°	1108	1179	1152



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.3	3.6
10°-20°	335.2	10.2
20°-30°	500.0	15.1
30°-40°	592.5	17.9
40°-50°	599.5	18.2
50°-60°	523.6	15.9
60°-70°	382.6	11.6
70°-80°	203.6	6.2
80°-90°	47.0	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°	953.5	28.9
0°-40°	1545.9	46.8
0°-60°	2669.0	80.8
0°-90°	3302.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3302.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1256	1256	1256	1256	1256	
5°	1240	1242	1251	1254	1244	118
15°	1174	1182	1194	1201	1185	331
25°	1064	1077	1094	1098	1082	490
35°	921	935	957	964	948	576
45°	752	766	790	791	775	580
55°	570	582	597	588	579	510
65°	379	387	394	386	380	375
75°	188	192	197	190	185	200
85°	36	36	38	39	37	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1256.0	1256.0	1256.0	1256.0	1256.0
2.5°	1246.2	1250.3	1254.5	1256.3	1246.1
5°	1239.7	1242.0	1251.3	1254.2	1243.6
7.5°	1229.0	1232.5	1241.5	1242.8	1232.6
10°	1214.3	1220.6	1226.6	1233.1	1220.7
12.5°	1195.6	1204.1	1214.3	1215.5	1206.0
15°	1174.5	1182.4	1193.5	1200.7	1185.1
17.5°	1151.0	1158.5	1172.9	1174.2	1164.8
20°	1124.7	1134.1	1151.3	1154.4	1137.5
22.5°	1094.8	1107.5	1121.9	1124.8	1112.3
25°	1063.5	1076.6	1094.4	1098.5	1081.9
27.5°	1030.8	1043.4	1063.4	1066.3	1052.3
30°	995.7	1007.5	1029.5	1034.4	1020.1
32.5°	960.2	971.9	996.3	1000.3	986.5
35°	920.6	935.0	957.1	963.8	948.2
37.5°	880.3	894.3	919.5	925.5	908.7
40°	838.6	852.5	877.2	882.2	866.1
42.5°	795.9	809.8	836.2	837.0	823.7
45°	752.3	765.7	790.3	790.9	775.4
47.5°	708.1	721.6	743.6	741.1	726.4
50°	663.4	676.2	695.4	690.4	677.2
52.5°	617.0	629.5	647.6	639.5	627.1
55°	570.4	582.0	597.1	588.5	578.8
57.5°	523.5	535.1	546.8	538.0	529.6
60°	476.1	486.3	495.8	486.9	480.5
62.5°	427.9	436.7	444.9	436.4	430.4
65°	379.2	387.0	393.8	385.9	379.5
67.5°	330.8	337.4	343.7	335.5	328.9
70°	282.4	288.0	293.8	285.4	279.3
72.5°	234.6	239.6	244.7	236.6	231.2
75°	188.2	192.5	196.7	189.5	185.3
77.5°	143.8	147.5	150.4	145.8	141.7
80°	102.6	105.3	107.0	105.2	101.4
82.5°	66.0	67.9	68.8	68.7	66.2
85°	35.9	36.5	38.2	38.6	37.3
87.5°	13.9	14.8	15.2	16.4	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)