

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: P488870

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-1LO-30-120-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: P488870
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-LD4-1LO-30-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

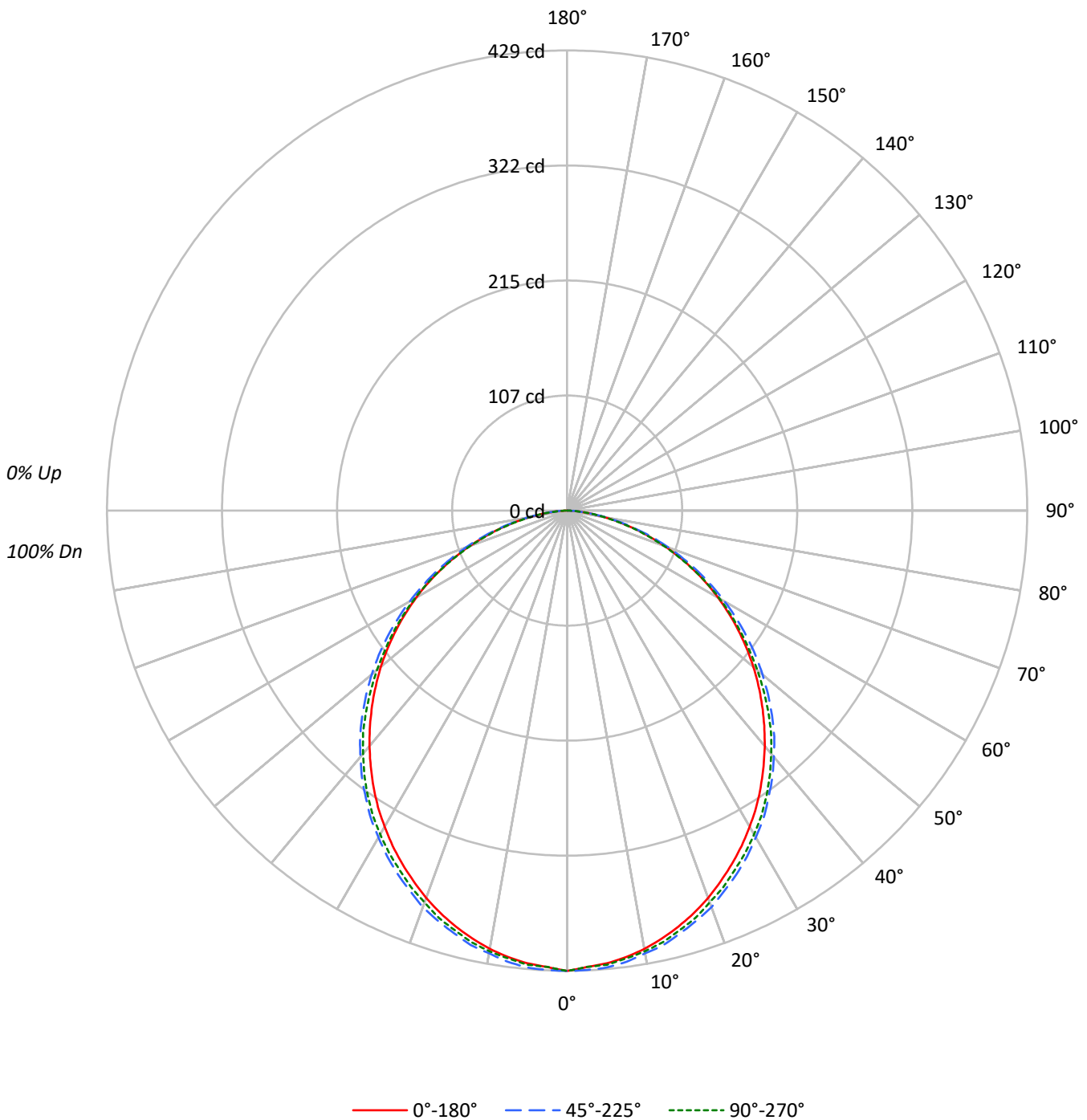
Lumens per Lamp: N/A
Luminaire Lumens: 1128.5 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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°	1155	1155	1155
5°	1145	1155	1148
10°	1134	1145	1140
15°	1118	1136	1128
20°	1101	1127	1113
25°	1079	1110	1098
30°	1057	1093	1083
35°	1033	1075	1065
40°	1007	1053	1040
45°	978	1028	1008
50°	949	995	969
55°	914	958	928
60°	876	912	884
65°	825	857	826
70°	759	790	751
75°	669	699	658
80°	544	567	538
85°	380	404	392



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.4	3.6
10°-20°	114.6	10.2
20°-30°	170.9	15.1
30°-40°	202.5	17.9
40°-50°	204.9	18.2
50°-60°	178.9	15.9
60°-70°	130.7	11.6
70°-80°	69.6	6.2
80°-90°	16.1	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°	325.8	28.9
0°-40°	528.3	46.8
0°-60°	912.1	80.8
0°-90°	1128.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1128.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	429	429	429	429	429	
5°	424	424	428	429	425	40
15°	401	404	408	410	405	113
25°	364	368	374	375	370	167
35°	315	320	327	329	324	197
45°	257	262	270	270	265	198
55°	195	199	204	201	198	174
65°	130	132	135	132	130	128
75°	64	66	67	65	63	68
85°	12	12	13	13	13	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	429.2	429.2	429.2	429.2	429.2
2.5°	425.9	427.3	428.7	429.3	425.8
5°	423.7	424.5	427.6	428.6	425.0
7.5°	420.0	421.2	424.3	424.7	421.2
10°	415.0	417.1	419.2	421.4	417.2
12.5°	408.6	411.5	415.0	415.4	412.2
15°	401.4	404.1	407.9	410.3	405.0
17.5°	393.3	395.9	400.8	401.3	398.1
20°	384.3	387.6	393.5	394.5	388.7
22.5°	374.1	378.5	383.4	384.4	380.1
25°	363.5	367.9	374.0	375.4	369.7
27.5°	352.3	356.6	363.4	364.4	359.6
30°	340.3	344.3	351.8	353.5	348.6
32.5°	328.1	332.1	340.5	341.9	337.1
35°	314.6	319.5	327.1	329.4	324.1
37.5°	300.8	305.6	314.2	316.3	310.5
40°	286.6	291.3	299.8	301.5	296.0
42.5°	272.0	276.7	285.8	286.0	281.5
45°	257.1	261.7	270.1	270.3	265.0
47.5°	242.0	246.6	254.1	253.3	248.3
50°	226.7	231.1	237.7	236.0	231.4
52.5°	210.9	215.1	221.3	218.6	214.3
55°	194.9	198.9	204.1	201.1	197.8
57.5°	178.9	182.9	186.8	183.9	181.0
60°	162.7	166.2	169.5	166.4	164.2
62.5°	146.2	149.2	152.1	149.1	147.1
65°	129.6	132.2	134.6	131.9	129.7
67.5°	113.1	115.3	117.4	114.7	112.4
70°	96.5	98.4	100.4	97.5	95.4
72.5°	80.2	81.9	83.6	80.9	79.0
75°	64.3	65.8	67.2	64.8	63.3
77.5°	49.1	50.4	51.4	49.8	48.4
80°	35.1	36.0	36.6	36.0	34.7
82.5°	22.5	23.2	23.5	23.5	22.6
85°	12.3	12.5	13.1	13.2	12.7
87.5°	4.7	5.1	5.2	5.6	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)