

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: P488326

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-1LO-20-120-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: P488326
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-12-2-INS-A12125-LD4-1LO-20-120-EDD-90
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

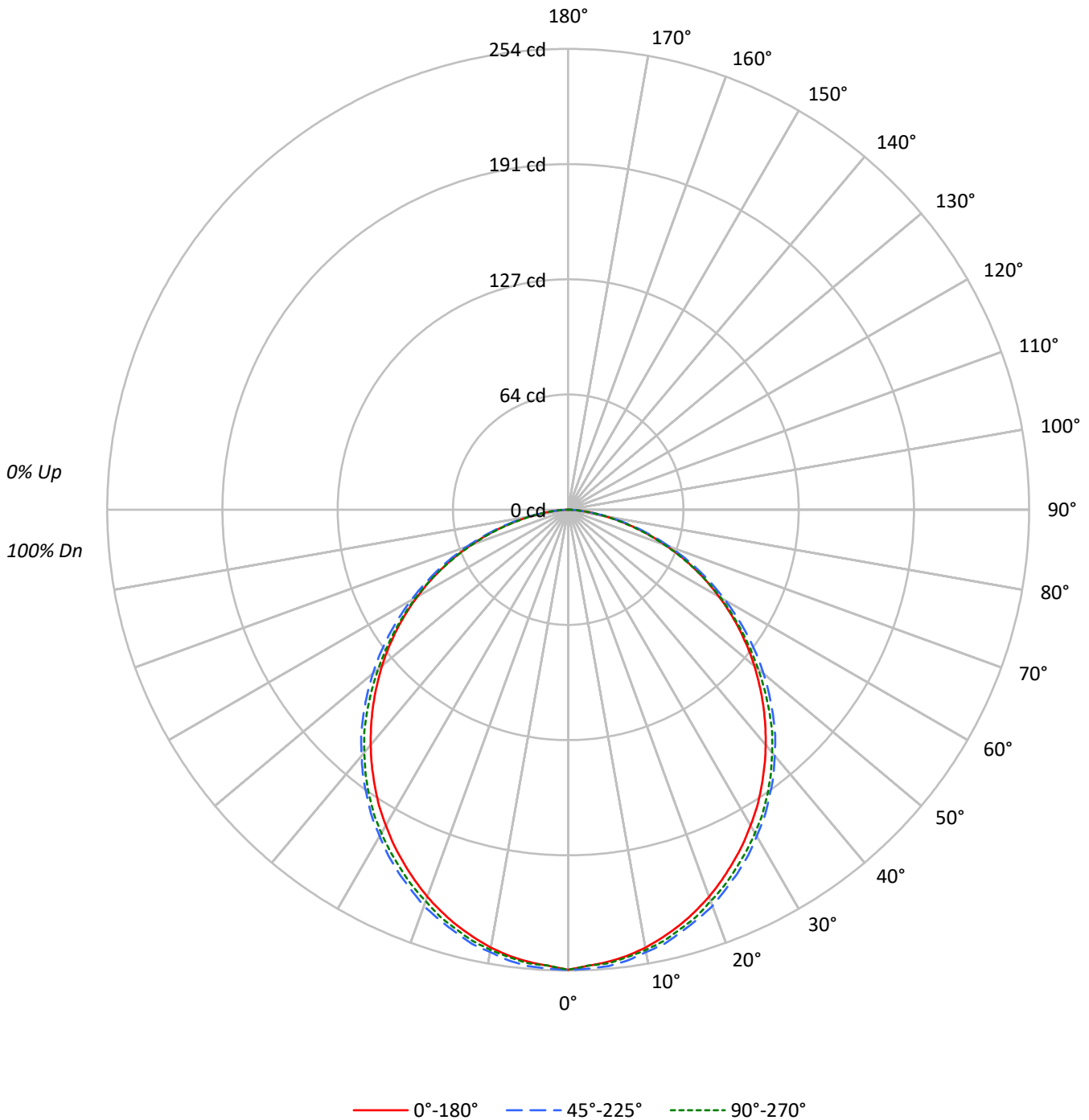
Lumens per Lamp: N/A
Luminaire Lumens: 666.6 lumens
Efficiency: N/A
Efficacy: 57.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	1365	1365	1365
5°	1352	1365	1356
10°	1339	1353	1347
15°	1321	1342	1333
20°	1300	1331	1315
25°	1275	1312	1297
30°	1249	1291	1280
35°	1221	1269	1258
40°	1189	1244	1228
45°	1156	1214	1191
50°	1121	1176	1145
55°	1081	1131	1096
60°	1034	1077	1044
65°	975	1012	975
70°	897	933	887
75°	790	826	778
80°	642	669	635
85°	445	475	463



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.9	3.6
10°-20°	67.7	10.2
20°-30°	100.9	15.1
30°-40°	119.6	17.9
40°-50°	121.0	18.2
50°-60°	105.7	15.9
60°-70°	77.2	11.6
70°-80°	41.1	6.2
80°-90°	9.5	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°	192.5	28.9
0°-40°	312.1	46.8
0°-60°	538.8	80.8
0°-90°	666.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	666.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	254	254	254	254	254	
5°	250	251	253	253	251	24
15°	237	239	241	242	239	67
25°	215	217	221	222	218	99
35°	186	189	193	195	191	116
45°	152	155	160	160	156	117
55°	115	118	120	119	117	103
65°	77	78	80	78	77	76
75°	38	39	40	38	37	40
85°	7	7	8	8	8	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	253.6	253.6	253.6	253.6	253.6
2.5°	251.6	252.4	253.2	253.6	251.5
5°	250.2	250.7	252.6	253.2	251.0
7.5°	248.1	248.8	250.6	250.9	248.8
10°	245.1	246.4	247.6	248.9	246.4
12.5°	241.3	243.1	245.1	245.4	243.5
15°	237.1	238.7	240.9	242.4	239.2
17.5°	232.3	233.9	236.8	237.0	235.1
20°	227.0	228.9	232.4	233.0	229.6
22.5°	221.0	223.6	226.5	227.1	224.5
25°	214.7	217.3	220.9	221.7	218.4
27.5°	208.1	210.6	214.7	215.2	212.4
30°	201.0	203.4	207.8	208.8	205.9
32.5°	193.8	196.2	201.1	201.9	199.1
35°	185.8	188.7	193.2	194.6	191.4
37.5°	177.7	180.5	185.6	186.8	183.4
40°	169.3	172.1	177.1	178.1	174.8
42.5°	160.7	163.5	168.8	169.0	166.3
45°	151.9	154.6	159.5	159.7	156.5
47.5°	142.9	145.7	150.1	149.6	146.6
50°	133.9	136.5	140.4	139.4	136.7
52.5°	124.6	127.1	130.7	129.1	126.6
55°	115.2	117.5	120.5	118.8	116.8
57.5°	105.7	108.0	110.4	108.6	106.9
60°	96.1	98.2	100.1	98.3	97.0
62.5°	86.4	88.2	89.8	88.1	86.9
65°	76.6	78.1	79.5	77.9	76.6
67.5°	66.8	68.1	69.4	67.7	66.4
70°	57.0	58.1	59.3	57.6	56.4
72.5°	47.4	48.4	49.4	47.8	46.7
75°	38.0	38.9	39.7	38.3	37.4
77.5°	29.0	29.8	30.4	29.4	28.6
80°	20.7	21.3	21.6	21.2	20.5
82.5°	13.3	13.7	13.9	13.9	13.4
85°	7.2	7.4	7.7	7.8	7.5
87.5°	2.8	3.0	3.1	3.3	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)