

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: P488471

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-1LO-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: P488471
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387254)
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-P12125-LD4-1LO-20-120-EDD
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

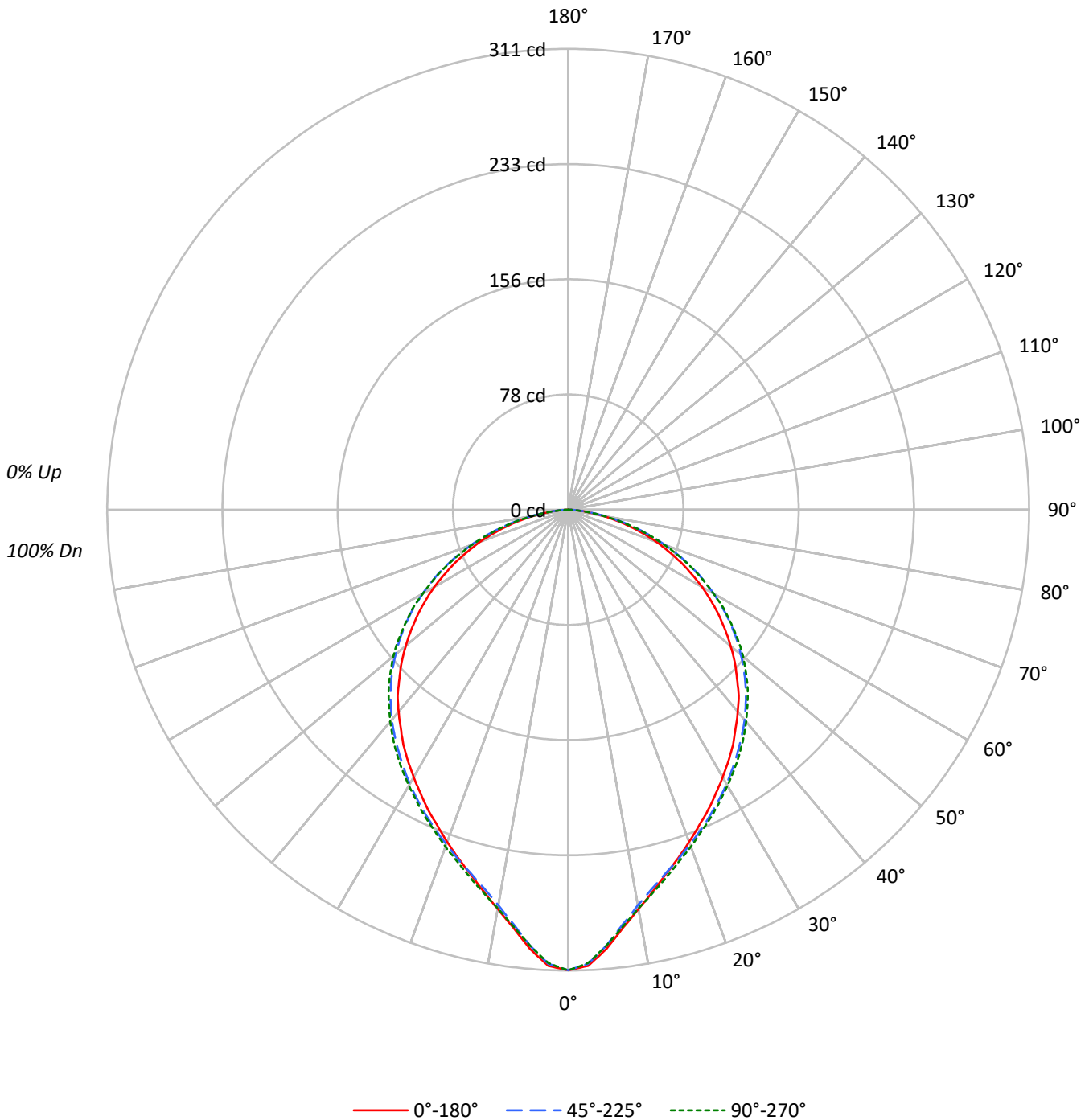
Lumens per Lamp: N/A
Luminaire Lumens: 721.9 lumens
Efficiency: N/A
Efficacy: 61.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.23
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): NR
Input Current (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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CATALOG NUMBER: CLM-12-2-INS-P12125-LD4-1LO-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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1673	1673	1673
5°	1606	1595	1595
10°	1495	1481	1492
15°	1419	1416	1430
20°	1367	1376	1387
25°	1327	1349	1357
30°	1295	1327	1336
35°	1273	1310	1323
40°	1251	1301	1312
45°	1225	1289	1304
50°	1197	1273	1289
55°	1164	1254	1259
60°	1123	1220	1217
65°	1065	1173	1165
70°	993	1094	1081
75°	878	969	959
80°	713	790	750
85°	494	506	482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.5	3.8
10°-20°	71.9	10.0
20°-30°	104.6	14.5
30°-40°	124.5	17.2
40°-50°	129.3	17.9
50°-60°	117.1	16.2
60°-70°	88.4	12.2
70°-80°	48.2	6.7
80°-90°	10.6	1.5
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°	204.0	28.3
0°-40°	328.5	45.5
0°-60°	574.8	79.6
0°-90°	721.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	721.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	311	311	311	311	311	
5°	297	297	295	295	295	28
15°	255	254	254	256	257	72
25°	224	225	227	229	228	103
35°	194	196	199	202	201	121
45°	161	164	169	171	171	124
55°	124	127	134	135	134	111
65°	84	86	92	92	92	83
75°	42	44	47	47	46	45
85°	8	8	8	8	8	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	310.8	310.8	310.8	310.8	310.8
2.5°	308.1	307.8	306.7	306.4	306.3
5°	297.3	296.6	295.2	295.0	295.2
7.5°	284.4	283.6	282.2	282.8	283.5
10°	273.5	271.6	271.0	271.8	273.1
12.5°	263.8	262.3	261.8	263.8	264.7
15°	254.6	253.9	254.1	255.8	256.6
17.5°	246.6	246.2	247.2	248.5	248.9
20°	238.6	239.3	240.3	241.7	242.1
22.5°	230.7	232.2	233.8	235.6	235.0
25°	223.5	225.4	227.2	229.0	228.5
27.5°	215.8	218.0	220.5	222.5	221.7
30°	208.4	211.2	213.6	216.0	214.9
32.5°	201.1	203.7	206.6	209.6	208.3
35°	193.8	196.1	199.4	202.5	201.4
37.5°	185.6	188.5	192.3	194.9	194.2
40°	178.0	180.6	185.2	186.9	186.8
42.5°	170.3	172.5	177.3	179.2	178.9
45°	160.9	163.8	169.3	171.2	171.3
47.5°	152.6	155.0	160.9	162.4	162.7
50°	143.0	146.1	152.0	153.8	154.0
52.5°	133.6	136.9	143.0	144.2	144.4
55°	124.1	127.0	133.6	134.6	134.2
57.5°	114.1	117.7	123.7	124.2	124.6
60°	104.3	107.4	113.3	113.9	113.1
62.5°	93.7	96.8	102.9	103.1	102.4
65°	83.6	86.0	92.1	91.9	91.5
67.5°	73.0	75.9	80.5	80.6	80.2
70°	63.1	65.2	69.5	69.6	68.7
72.5°	52.5	54.7	58.2	57.7	57.5
75°	42.2	43.9	46.6	46.9	46.1
77.5°	32.7	33.9	36.0	35.7	34.9
80°	23.0	24.0	25.5	25.2	24.2
82.5°	14.7	15.3	16.2	15.8	15.5
85°	8.0	8.1	8.2	8.1	7.8
87.5°	3.0	3.0	3.0	3.0	2.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)