

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: P488497

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-2HI-27-120-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: P488497
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-LD4-2HI-27-120-EDD
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

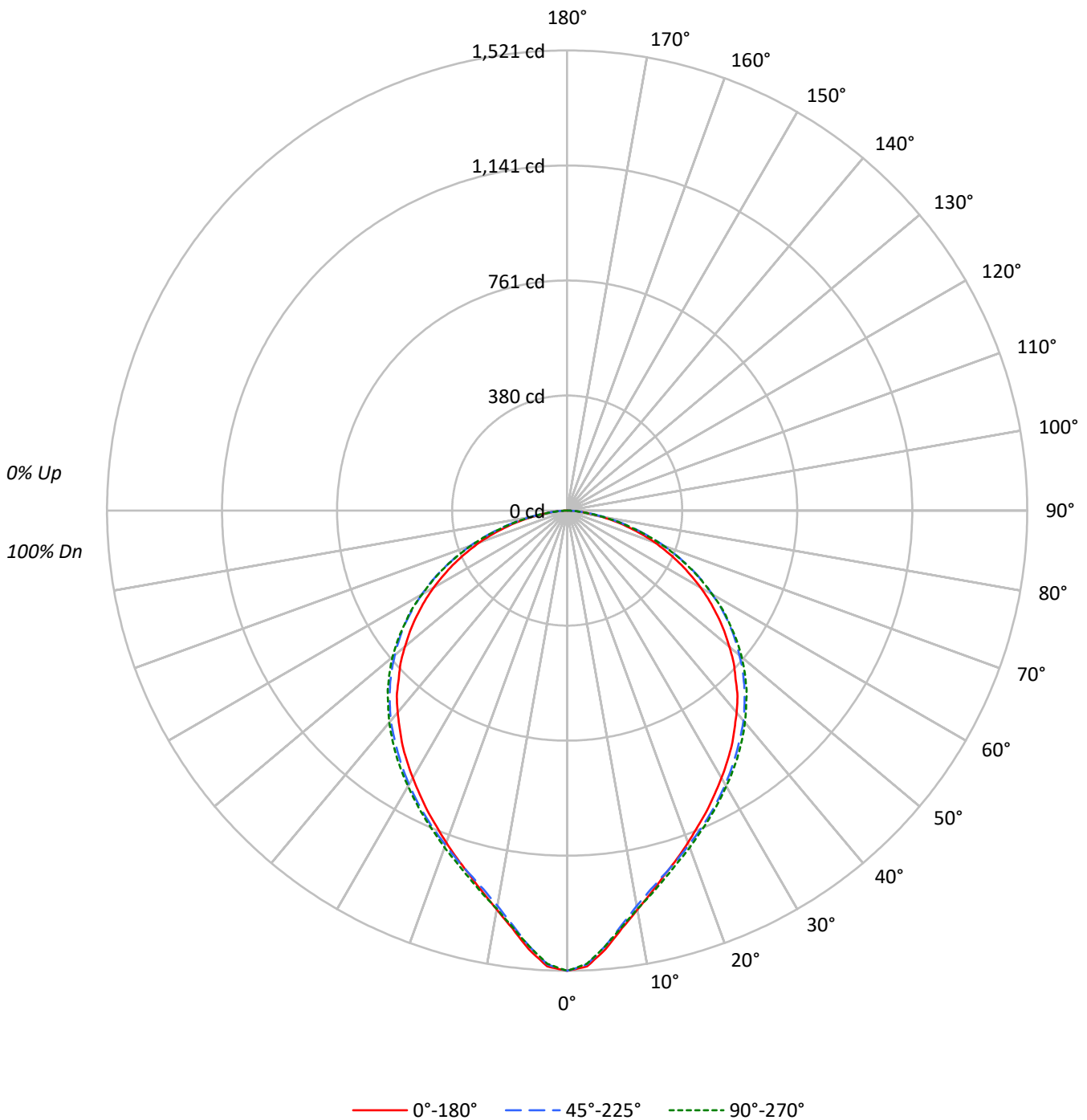
Lumens per Lamp: N/A
Luminaire Lumens: 3533.5 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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	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°	8187	8187	8187
5°	7861	7806	7806
10°	7317	7250	7306
15°	6942	6930	6998
20°	6688	6736	6788
25°	6497	6602	6641
30°	6340	6496	6536
35°	6231	6413	6478
40°	6121	6369	6423
45°	5995	6307	6382
50°	5863	6229	6311
55°	5699	6138	6163
60°	5495	5970	5958
65°	5209	5741	5703
70°	4862	5353	5287
75°	4292	4743	4695
80°	3487	3865	3676
85°	2421	2464	2371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.4	3.8
10°-20°	352.1	10.0
20°-30°	512.0	14.5
30°-40°	609.3	17.2
40°-50°	632.6	17.9
50°-60°	573.1	16.2
60°-70°	432.5	12.2
70°-80°	235.7	6.7
80°-90°	51.8	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°	998.5	28.3
0°-40°	1607.8	45.5
0°-60°	2813.6	79.6
0°-90°	3533.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3533.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1521	1521	1521	1521	1521	
5°	1455	1452	1445	1444	1445	135
15°	1246	1243	1244	1252	1256	352
25°	1094	1103	1112	1121	1118	504
35°	948	960	976	991	986	593
45°	788	802	829	838	838	609
55°	607	622	654	659	657	542
65°	409	421	451	450	448	404
75°	206	215	228	230	226	220
85°	39	40	40	40	38	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1521.2	1521.2	1521.2	1521.2	1521.2
2.5°	1507.9	1506.4	1501.5	1499.5	1499.2
5°	1455.1	1451.7	1444.8	1444.1	1444.8
7.5°	1392.0	1388.2	1381.4	1384.0	1387.4
10°	1338.8	1329.3	1326.6	1330.4	1336.9
12.5°	1291.2	1283.6	1281.4	1291.2	1295.8
15°	1246.0	1243.0	1243.7	1252.1	1255.9
17.5°	1206.9	1205.0	1209.9	1216.4	1218.3
20°	1167.7	1171.5	1176.1	1182.9	1185.2
22.5°	1129.3	1136.5	1144.2	1153.3	1150.2
25°	1094.0	1103.1	1111.8	1121.0	1118.3
27.5°	1056.3	1067.0	1079.2	1089.0	1085.2
30°	1020.2	1033.5	1045.3	1057.5	1051.8
32.5°	984.5	997.0	1011.1	1025.9	1019.5
35°	948.4	959.8	976.1	991.0	986.0
37.5°	908.5	922.5	941.2	954.1	950.7
40°	871.2	884.2	906.6	914.9	914.2
42.5°	833.6	844.3	867.8	877.3	875.8
45°	787.6	801.7	828.6	837.8	838.5
47.5°	746.9	758.7	787.6	794.8	796.3
50°	700.2	715.0	743.9	752.6	753.8
52.5°	654.2	670.1	699.8	705.9	707.0
55°	607.4	621.9	654.2	658.8	656.8
57.5°	558.4	575.9	605.5	607.8	609.7
60°	510.5	525.7	554.6	557.6	553.5
62.5°	458.4	474.0	503.7	504.4	501.0
65°	409.0	420.8	450.8	450.1	447.8
67.5°	357.3	371.7	393.8	394.5	392.7
70°	309.0	318.9	340.2	340.6	336.0
72.5°	257.0	267.6	284.7	282.4	281.3
75°	206.4	214.8	228.1	229.6	225.8
77.5°	160.0	166.1	176.0	174.9	170.7
80°	112.5	117.5	124.7	123.2	118.6
82.5°	71.8	74.9	79.5	77.5	75.6
85°	39.2	39.5	39.9	39.5	38.4
87.5°	14.4	14.8	14.8	14.4	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)