

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: P488338

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-1STD-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: P488338
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-LD4-1STD-20-120-EDD-90
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

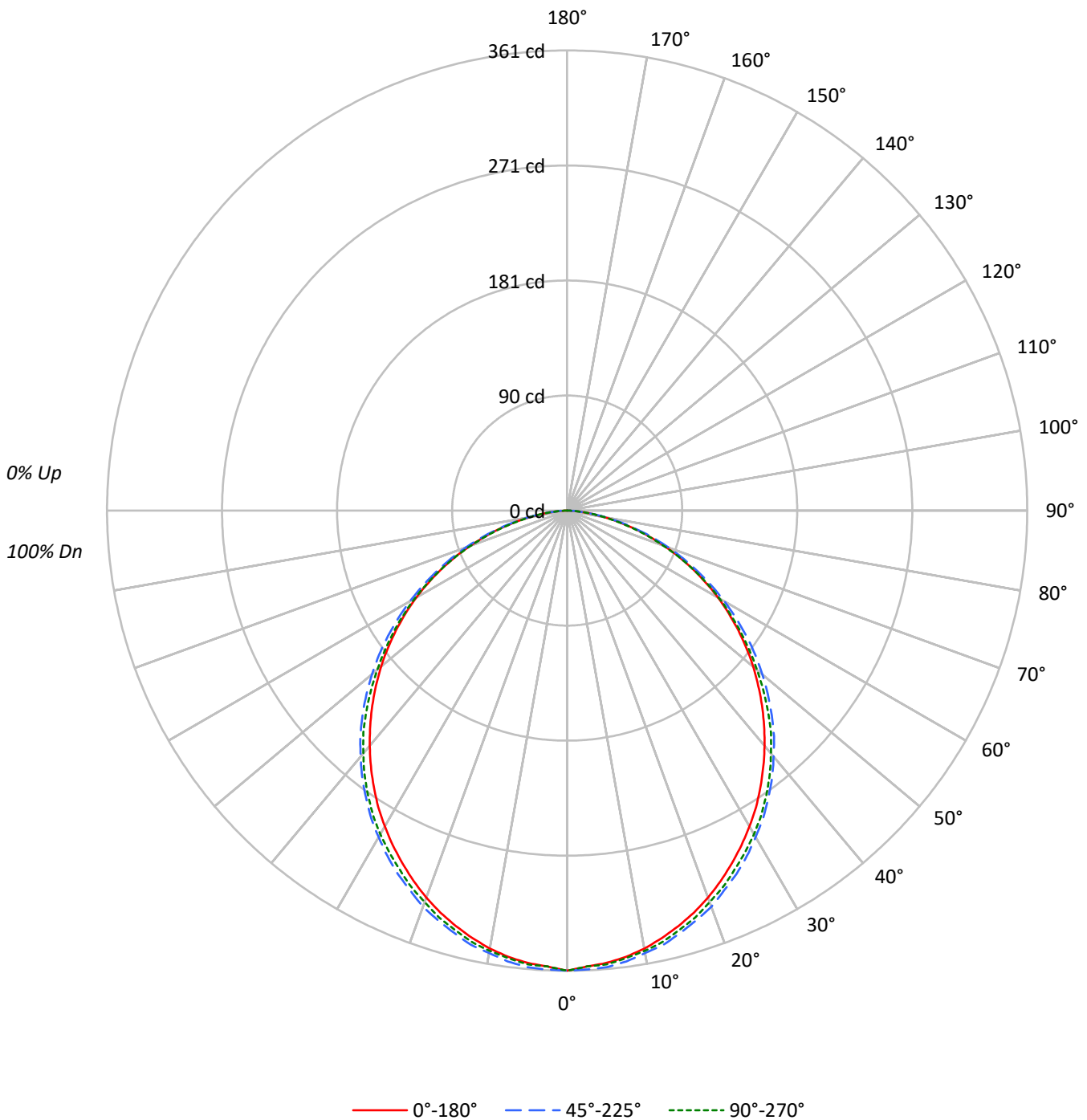
Lumens per Lamp: N/A
Luminaire Lumens: 948.7 lumens
Efficiency: N/A
Efficacy: 57.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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: P488338

CATALOG NUMBER: CLM-12-2-INS-A12125-LD4-1STD-20-120-EDD-90

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°	1942	1942	1942
5°	1924	1942	1930
10°	1907	1926	1917
15°	1880	1911	1897
20°	1851	1895	1872
25°	1814	1867	1846
30°	1778	1838	1821
35°	1738	1807	1790
40°	1692	1770	1748
45°	1645	1728	1696
50°	1596	1673	1629
55°	1538	1610	1560
60°	1473	1534	1486
65°	1388	1440	1388
70°	1276	1328	1262
75°	1125	1175	1106
80°	914	955	902
85°	636	679	661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.0	3.6
10°-20°	96.3	10.2
20°-30°	143.6	15.1
30°-40°	170.2	17.9
40°-50°	172.2	18.2
50°-60°	150.4	15.9
60°-70°	109.9	11.6
70°-80°	58.5	6.2
80°-90°	13.5	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°	273.9	28.9
0°-40°	444.1	46.8
0°-60°	766.8	80.8
0°-90°	948.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	948.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	361	361	361	361	361	
5°	356	357	360	360	357	34
15°	337	340	343	345	340	95
25°	306	309	314	316	311	141
35°	264	269	275	277	272	165
45°	216	220	227	227	223	167
55°	164	167	172	169	166	147
65°	109	111	113	111	109	108
75°	54	55	56	54	53	57
85°	10	10	11	11	11	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	360.9	360.9	360.9	360.9	360.9
2.5°	358.0	359.2	360.4	360.9	358.0
5°	356.2	356.8	359.5	360.3	357.3
7.5°	353.1	354.1	356.7	357.1	354.1
10°	348.9	350.7	352.4	354.3	350.7
12.5°	343.5	345.9	348.9	349.2	346.5
15°	337.4	339.7	342.9	344.9	340.5
17.5°	330.7	332.8	337.0	337.4	334.6
20°	323.1	325.8	330.8	331.6	326.8
22.5°	314.5	318.2	322.3	323.1	319.6
25°	305.5	309.3	314.4	315.6	310.8
27.5°	296.1	299.8	305.5	306.3	302.3
30°	286.1	289.5	295.8	297.2	293.1
32.5°	275.8	279.2	286.2	287.4	283.4
35°	264.5	268.6	275.0	276.9	272.4
37.5°	252.9	256.9	264.2	265.9	261.1
40°	240.9	244.9	252.0	253.4	248.8
42.5°	228.7	232.6	240.2	240.5	236.6
45°	216.1	220.0	227.0	227.2	222.8
47.5°	203.4	207.3	213.6	212.9	208.7
50°	190.6	194.3	199.8	198.4	194.6
52.5°	177.3	180.8	186.1	183.7	180.2
55°	163.9	167.2	171.6	169.1	166.3
57.5°	150.4	153.7	157.1	154.6	152.2
60°	136.8	139.7	142.5	139.9	138.1
62.5°	122.9	125.5	127.8	125.4	123.7
65°	109.0	111.2	113.1	110.9	109.0
67.5°	95.0	96.9	98.7	96.4	94.5
70°	81.1	82.8	84.4	82.0	80.2
72.5°	67.4	68.8	70.3	68.0	66.4
75°	54.1	55.3	56.5	54.4	53.2
77.5°	41.3	42.4	43.2	41.9	40.7
80°	29.5	30.3	30.8	30.2	29.1
82.5°	18.9	19.5	19.8	19.7	19.0
85°	10.3	10.5	11.0	11.1	10.7
87.5°	4.0	4.2	4.4	4.7	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)