

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: P488340

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-1STD-27-120-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: P488340
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-27-120-EDD-90
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

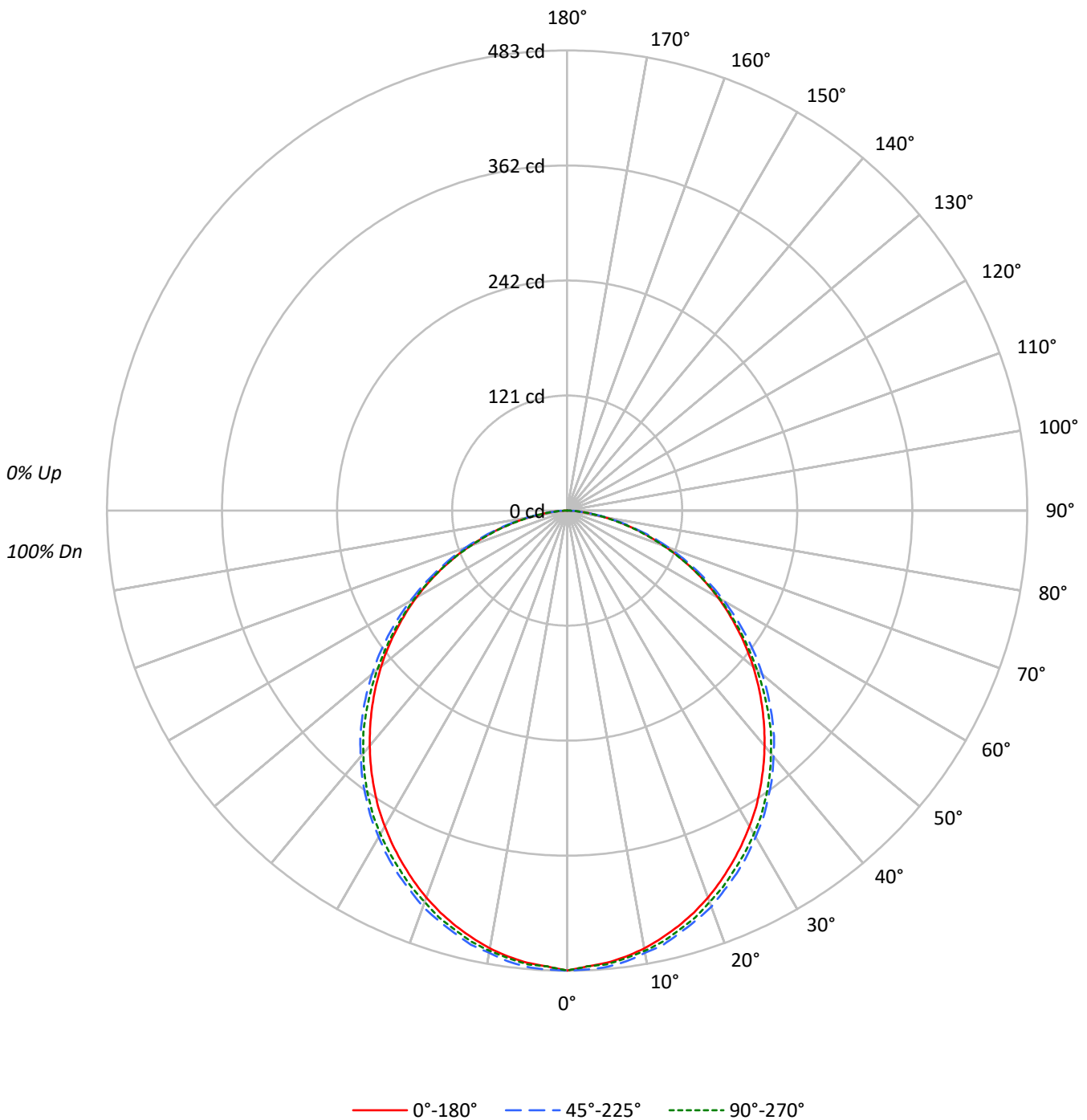
Lumens per Lamp: N/A
Luminaire Lumens: 1269.2 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

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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°	2598	2598	2598
5°	2574	2598	2582
10°	2551	2576	2564
15°	2515	2556	2538
20°	2476	2534	2504
25°	2428	2498	2469
30°	2378	2459	2437
35°	2325	2417	2395
40°	2264	2368	2339
45°	2201	2312	2268
50°	2135	2238	2179
55°	2057	2153	2088
60°	1970	2052	1988
65°	1857	1927	1858
70°	1707	1777	1688
75°	1503	1572	1481
80°	1221	1274	1209
85°	852	908	883



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.5	3.6
10°-20°	128.8	10.2
20°-30°	192.2	15.1
30°-40°	227.7	17.9
40°-50°	230.4	18.2
50°-60°	201.2	15.9
60°-70°	147.0	11.6
70°-80°	78.2	6.2
80°-90°	18.1	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°	366.5	28.9
0°-40°	594.2	46.8
0°-60°	1025.8	80.8
0°-90°	1269.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1269.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	483	483	483	483	483	
5°	476	477	481	482	478	45
15°	451	454	459	462	456	127
25°	409	414	421	422	416	188
35°	354	359	368	370	364	221
45°	289	294	304	304	298	223
55°	219	224	230	226	222	196
65°	146	149	151	148	146	144
75°	72	74	76	73	71	77
85°	14	14	15	15	14	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	482.8	482.8	482.8	482.8	482.8
2.5°	479.0	480.5	482.2	482.9	478.9
5°	476.5	477.4	480.9	482.1	478.0
7.5°	472.3	473.7	477.2	477.7	473.8
10°	466.7	469.1	471.4	474.0	469.2
12.5°	459.5	462.8	466.7	467.2	463.5
15°	451.4	454.4	458.7	461.5	455.5
17.5°	442.4	445.3	450.8	451.3	447.7
20°	432.3	435.9	442.5	443.7	437.2
22.5°	420.8	425.7	431.2	432.3	427.5
25°	408.8	413.8	420.6	422.2	415.8
27.5°	396.2	401.0	408.7	409.8	404.4
30°	382.7	387.2	395.7	397.6	392.1
32.5°	369.0	373.6	382.9	384.5	379.1
35°	353.8	359.4	367.9	370.4	364.5
37.5°	338.4	343.7	353.4	355.7	349.3
40°	322.3	327.6	337.1	339.1	332.9
42.5°	305.9	311.2	321.4	321.7	316.6
45°	289.2	294.3	303.7	304.0	298.0
47.5°	272.2	277.3	285.8	284.8	279.2
50°	255.0	259.9	267.3	265.4	260.3
52.5°	237.2	241.9	248.9	245.8	241.0
55°	219.2	223.7	229.5	226.2	222.5
57.5°	201.2	205.7	210.1	206.8	203.6
60°	183.0	186.9	190.6	187.2	184.7
62.5°	164.5	167.8	171.0	167.7	165.4
65°	145.8	148.7	151.3	148.3	145.9
67.5°	127.2	129.7	132.1	129.0	126.4
70°	108.5	110.7	112.9	109.7	107.3
72.5°	90.2	92.1	94.1	90.9	88.9
75°	72.3	74.0	75.6	72.8	71.2
77.5°	55.3	56.7	57.8	56.0	54.5
80°	39.4	40.5	41.1	40.4	39.0
82.5°	25.4	26.1	26.5	26.4	25.5
85°	13.8	14.0	14.7	14.8	14.3
87.5°	5.3	5.7	5.8	6.3	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)