

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: P488322

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-1HI-40-120-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: P488322
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-LD4-1HI-40-120-EDD-90
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

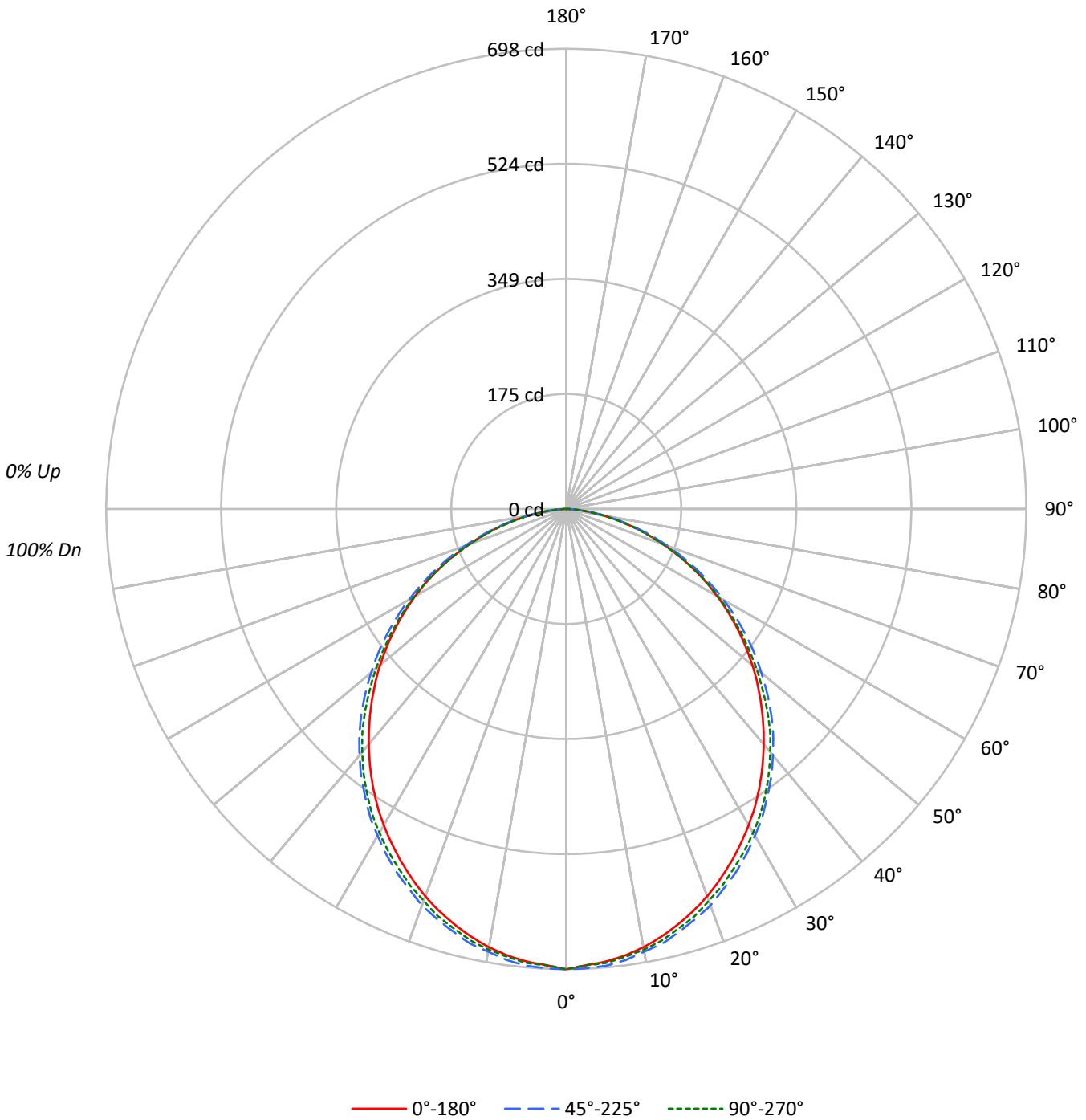
Lumens per Lamp: N/A
Luminaire Lumens: 1835.6 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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°	3758	3758	3758
5°	3723	3758	3735
10°	3689	3726	3709
15°	3638	3696	3671
20°	3581	3666	3621
25°	3511	3613	3571
30°	3440	3557	3524
35°	3363	3495	3463
40°	3275	3426	3382
45°	3183	3344	3280
50°	3087	3237	3152
55°	2975	3114	3019
60°	2848	2967	2875
65°	2684	2788	2687
70°	2471	2570	2442
75°	2175	2273	2142
80°	1767	1844	1748
85°	1229	1309	1278



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.8	3.6
10°-20°	186.3	10.2
20°-30°	277.9	15.1
30°-40°	329.3	17.9
40°-50°	333.2	18.2
50°-60°	291.0	15.9
60°-70°	212.7	11.6
70°-80°	113.2	6.2
80°-90°	26.2	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°	530.0	28.9
0°-40°	859.3	46.8
0°-60°	1483.6	80.8
0°-90°	1835.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1835.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	698	698	698	698	698	
5°	689	690	696	697	691	65
15°	653	657	663	667	659	184
25°	591	598	608	611	601	272
35°	512	520	532	536	527	320
45°	418	426	439	440	431	323
55°	317	324	332	327	322	283
65°	211	215	219	214	211	209
75°	105	107	109	105	103	111
85°	20	20	21	22	21	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	698.2	698.2	698.2	698.2	698.2
2.5°	692.7	695.0	697.3	698.3	692.7
5°	689.1	690.4	695.6	697.2	691.3
7.5°	683.1	685.1	690.1	690.8	685.2
10°	675.0	678.5	681.8	685.5	678.6
12.5°	664.6	669.3	675.0	675.6	670.4
15°	652.9	657.2	663.4	667.4	658.8
17.5°	639.8	644.0	652.0	652.7	647.5
20°	625.2	630.4	640.0	641.7	632.3
22.5°	608.6	615.6	623.6	625.2	618.3
25°	591.2	598.5	608.4	610.6	601.4
27.5°	573.0	580.0	591.1	592.7	584.9
30°	553.5	560.1	572.3	575.0	567.0
32.5°	533.7	540.3	553.8	556.1	548.3
35°	511.8	519.8	532.0	535.8	527.1
37.5°	489.3	497.1	511.1	514.4	505.1
40°	466.1	473.9	487.6	490.4	481.4
42.5°	442.4	450.1	464.8	465.3	457.9
45°	418.2	425.6	439.3	439.7	431.0
47.5°	393.6	401.1	413.3	411.9	403.8
50°	368.7	375.9	386.6	383.8	376.5
52.5°	343.0	349.9	360.0	355.5	348.6
55°	317.1	323.5	331.9	327.1	321.7
57.5°	291.0	297.5	303.9	299.1	294.4
60°	264.6	270.3	275.6	270.7	267.1
62.5°	237.9	242.7	247.3	242.6	239.3
65°	210.8	215.1	218.9	214.5	211.0
67.5°	183.9	187.5	191.0	186.5	182.8
70°	157.0	160.1	163.3	158.7	155.2
72.5°	130.4	133.2	136.0	131.5	128.5
75°	104.6	107.0	109.3	105.3	103.0
77.5°	79.9	82.0	83.6	81.0	78.8
80°	57.0	58.6	59.5	58.5	56.4
82.5°	36.7	37.8	38.3	38.2	36.8
85°	19.9	20.3	21.2	21.5	20.7
87.5°	7.7	8.2	8.4	9.1	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)