

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: P488329

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-1LO-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: P488329
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-LD4-1LO-27-120-EDD
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

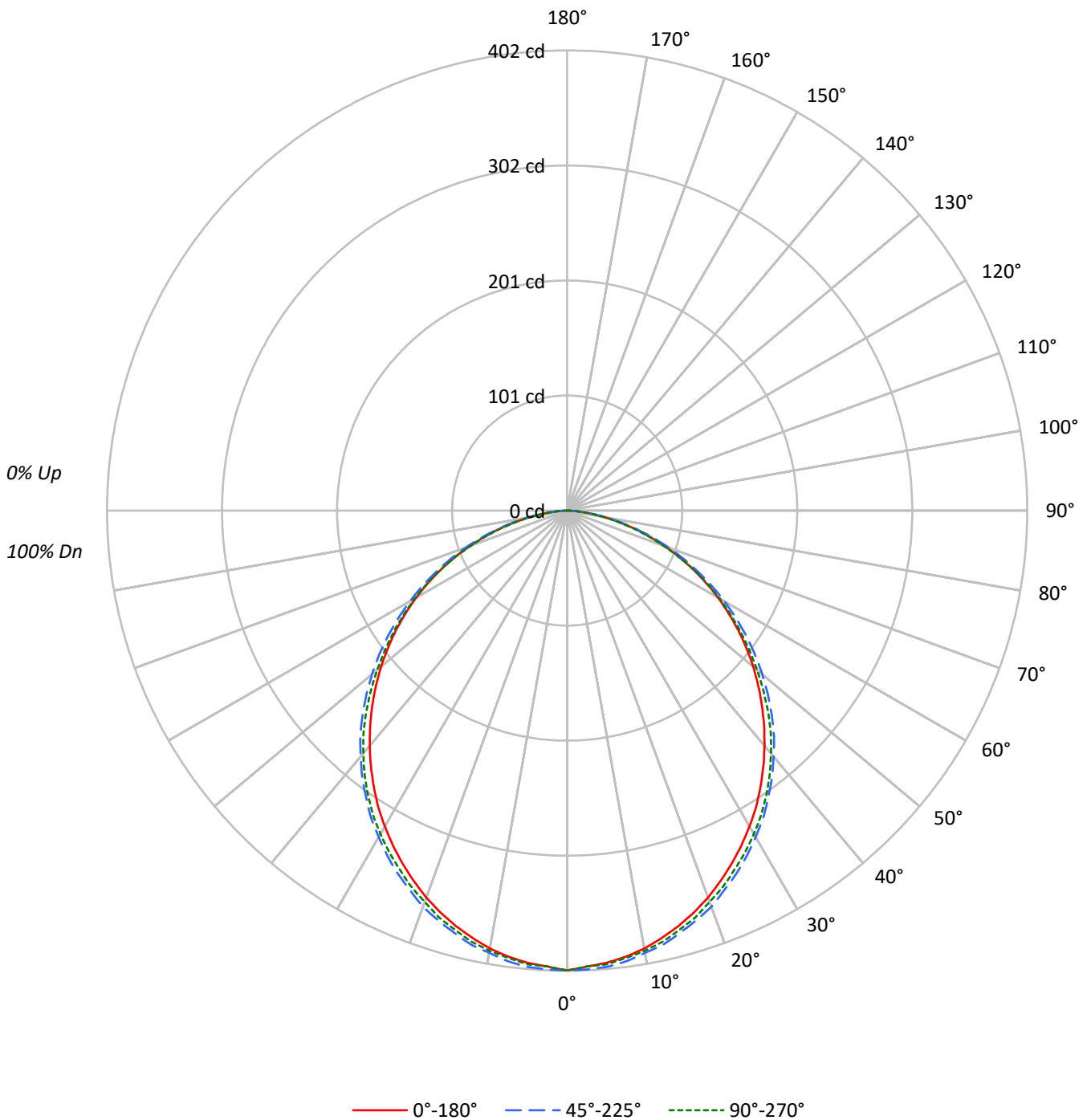
Lumens per Lamp: N/A
Luminaire Lumens: 1056.2 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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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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°	2162	2162	2162
5°	2142	2162	2149
10°	2123	2144	2134
15°	2093	2127	2112
20°	2060	2109	2084
25°	2020	2078	2055
30°	1979	2046	2028
35°	1935	2011	1993
40°	1884	1971	1946
45°	1831	1924	1888
50°	1777	1862	1814
55°	1712	1792	1737
60°	1639	1707	1654
65°	1545	1603	1546
70°	1421	1479	1405
75°	1252	1308	1233
80°	1017	1060	1004
85°	710	753	735



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.8	3.6
10°-20°	107.2	10.2
20°-30°	159.9	15.1
30°-40°	189.5	17.9
40°-50°	191.7	18.2
50°-60°	167.5	15.9
60°-70°	122.4	11.6
70°-80°	65.1	6.2
80°-90°	15.0	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°	305.0	28.9
0°-40°	494.5	46.8
0°-60°	853.7	80.8
0°-90°	1056.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1056.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	402	402	402	402	402	
5°	396	397	400	401	398	38
15°	376	378	382	384	379	106
25°	340	344	350	351	346	157
35°	294	299	306	308	303	184
45°	241	245	253	253	248	186
55°	182	186	191	188	185	163
65°	121	124	126	123	121	120
75°	60	62	63	61	59	64
85°	12	12	12	12	12	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	401.7	401.7	401.7	401.7	401.7
2.5°	398.6	399.9	401.2	401.8	398.6
5°	396.5	397.3	400.2	401.2	397.8
7.5°	393.1	394.2	397.1	397.5	394.2
10°	388.4	390.4	392.3	394.4	390.4
12.5°	382.4	385.1	388.4	388.8	385.8
15°	375.7	378.2	381.7	384.0	379.1
17.5°	368.1	370.6	375.2	375.6	372.6
20°	359.7	362.7	368.3	369.2	363.8
22.5°	350.2	354.2	358.8	359.8	355.8
25°	340.2	344.4	350.0	351.3	346.0
27.5°	329.7	333.7	340.1	341.0	336.6
30°	318.5	322.3	329.3	330.8	326.3
32.5°	307.1	310.9	318.7	320.0	315.5
35°	294.5	299.1	306.1	308.3	303.3
37.5°	281.6	286.0	294.1	296.0	290.7
40°	268.2	272.7	280.6	282.2	277.0
42.5°	254.6	259.0	267.5	267.7	263.4
45°	240.6	244.9	252.8	253.0	248.0
47.5°	226.5	230.8	237.8	237.0	232.3
50°	212.2	216.3	222.4	220.8	216.6
52.5°	197.4	201.3	207.1	204.6	200.6
55°	182.5	186.1	191.0	188.2	185.1
57.5°	167.4	171.2	174.9	172.1	169.4
60°	152.3	155.5	158.6	155.7	153.7
62.5°	136.9	139.7	142.3	139.6	137.7
65°	121.3	123.8	125.9	123.4	121.4
67.5°	105.8	107.9	109.9	107.3	105.2
70°	90.3	92.1	94.0	91.3	89.3
72.5°	75.0	76.6	78.3	75.7	74.0
75°	60.2	61.6	62.9	60.6	59.3
77.5°	46.0	47.2	48.1	46.6	45.3
80°	32.8	33.7	34.2	33.7	32.4
82.5°	21.1	21.7	22.0	22.0	21.2
85°	11.5	11.7	12.2	12.3	11.9
87.5°	4.4	4.7	4.9	5.2	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)