

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: P488893

Luminaire Tested: **CLM-24-2-INS-A12125-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: P488893
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-24-2-INS-A12125-LD4-2HI-27-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

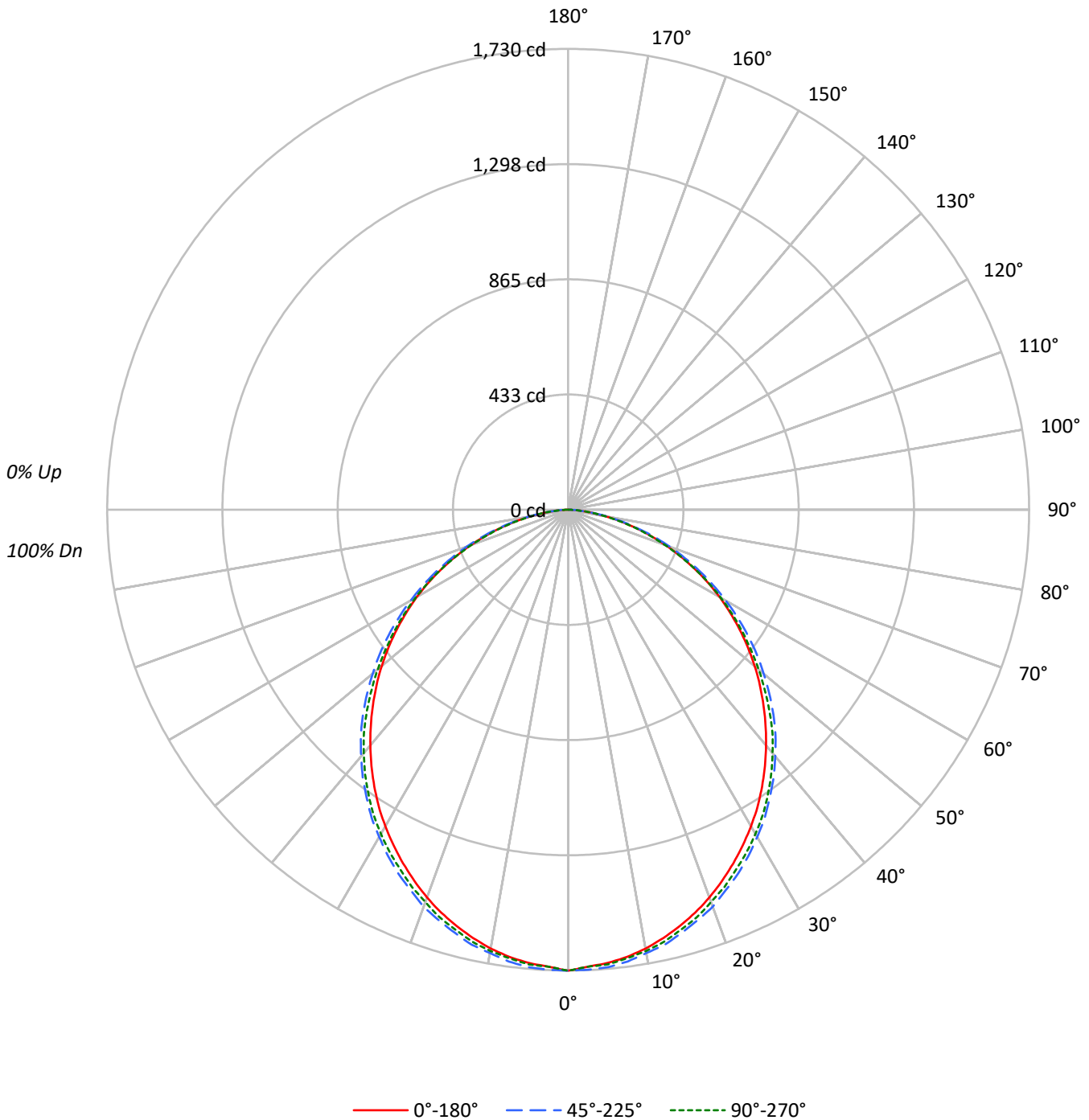
Lumens per Lamp: N/A
Luminaire Lumens: 4549.4 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	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°	4656	4656	4656
5°	4613	4657	4628
10°	4571	4618	4596
15°	4508	4581	4549
20°	4437	4542	4488
25°	4350	4477	4426
30°	4263	4407	4367
35°	4166	4332	4292
40°	4058	4245	4192
45°	3945	4144	4065
50°	3826	4011	3906
55°	3687	3860	3741
60°	3530	3676	3563
65°	3327	3454	3329
70°	3061	3185	3027
75°	2696	2818	2654
80°	2190	2286	2165
85°	1525	1624	1587



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.0	3.6
10°-20°	461.8	10.2
20°-30°	688.8	15.1
30°-40°	816.2	17.9
40°-50°	825.9	18.2
50°-60°	721.3	15.9
60°-70°	527.1	11.6
70°-80°	280.5	6.2
80°-90°	64.8	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°	1313.6	28.9
0°-40°	2129.8	46.8
0°-60°	3677.0	80.8
0°-90°	4549.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4549.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1730	1730	1730	1730	1730	
5°	1708	1711	1724	1728	1713	162
15°	1618	1629	1644	1654	1633	456
25°	1465	1483	1508	1513	1490	675
35°	1268	1288	1319	1328	1306	793
45°	1036	1055	1089	1090	1068	800
55°	786	802	823	811	797	703
65°	522	533	542	532	523	517
75°	259	265	271	261	255	276
85°	49	50	53	53	51	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1730.4	1730.4	1730.4	1730.4	1730.4
2.5°	1716.9	1722.5	1728.3	1730.8	1716.7
5°	1707.9	1711.1	1723.9	1727.9	1713.3
7.5°	1693.1	1698.0	1710.4	1712.2	1698.2
10°	1672.9	1681.6	1689.9	1698.9	1681.8
12.5°	1647.1	1658.9	1672.9	1674.5	1661.6
15°	1618.1	1628.9	1644.3	1654.2	1632.7
17.5°	1585.7	1596.1	1615.9	1617.7	1604.8
20°	1549.4	1562.4	1586.2	1590.3	1567.1
22.5°	1508.3	1525.8	1545.6	1549.6	1532.5
25°	1465.2	1483.3	1507.8	1513.4	1490.5
27.5°	1420.1	1437.5	1465.0	1469.0	1449.7
30°	1371.8	1388.1	1418.3	1425.0	1405.4
32.5°	1322.8	1339.0	1372.6	1378.1	1359.0
35°	1268.3	1288.2	1318.6	1327.8	1306.4
37.5°	1212.8	1232.1	1266.7	1275.0	1251.9
40°	1155.3	1174.4	1208.5	1215.3	1193.2
42.5°	1096.5	1115.6	1152.1	1153.1	1134.7
45°	1036.5	1054.9	1088.8	1089.7	1068.2
47.5°	975.6	994.1	1024.4	1021.0	1000.8
50°	913.9	931.6	958.1	951.2	933.0
52.5°	850.1	867.2	892.3	881.1	864.0
55°	785.9	801.8	822.7	810.8	797.4
57.5°	721.2	737.2	753.3	741.2	729.6
60°	655.9	670.0	683.1	670.9	662.0
62.5°	589.6	601.6	613.0	601.3	593.0
65°	522.5	533.1	542.5	531.7	522.8
67.5°	455.8	464.8	473.4	462.3	453.1
70°	389.1	396.8	404.8	393.2	384.7
72.5°	323.3	330.1	337.1	326.0	318.6
75°	259.3	265.2	271.0	261.1	255.3
77.5°	198.1	203.2	207.2	200.8	195.3
80°	141.3	145.1	147.5	145.0	139.7
82.5°	90.9	93.6	94.8	94.7	91.2
85°	49.4	50.3	52.6	53.2	51.4
87.5°	19.1	20.4	20.9	22.5	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)