

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: P488976

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-4LO-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: P488976
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-LD4-4LO-27-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

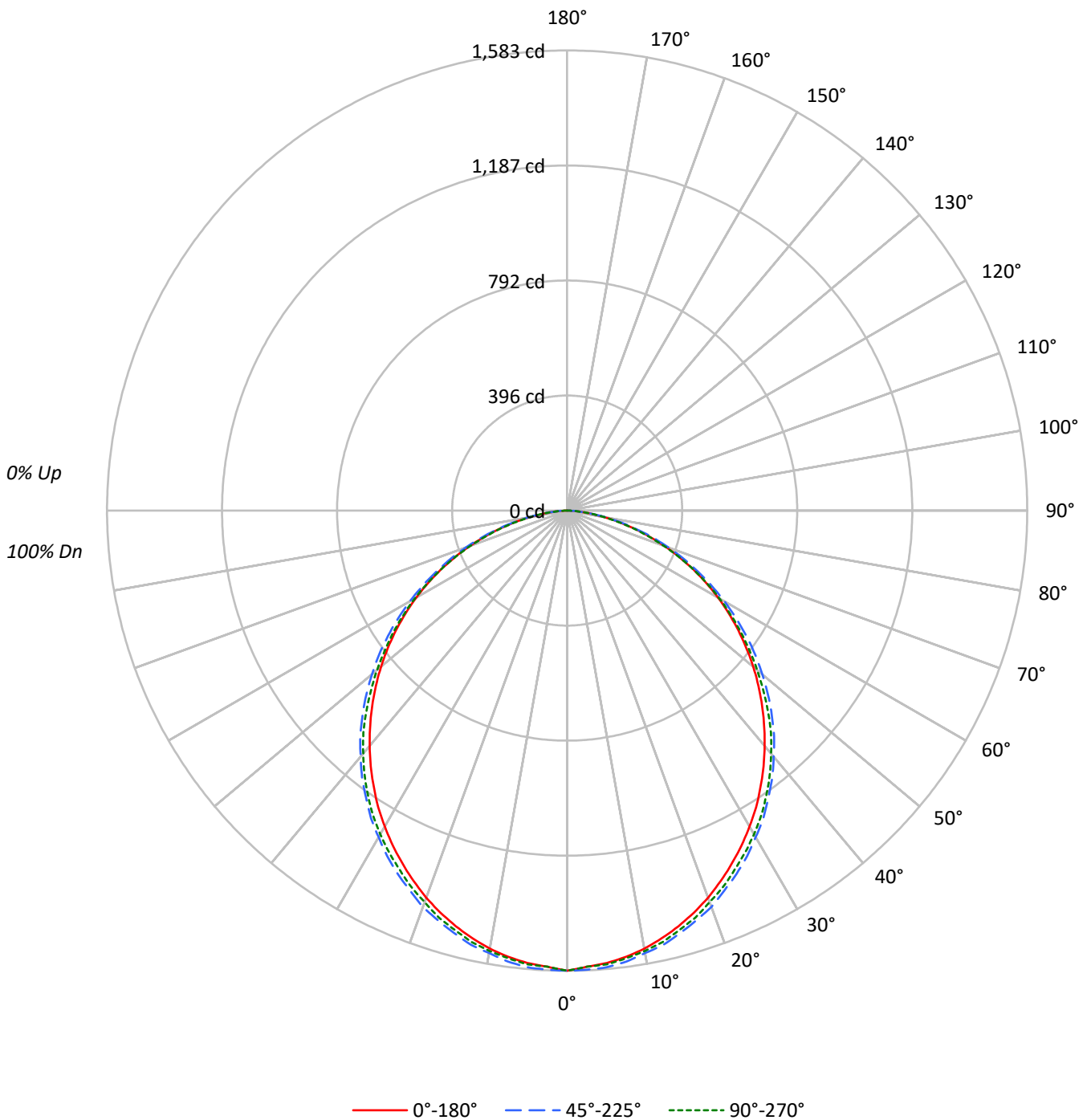
Lumens per Lamp: N/A
Luminaire Lumens: 4161.5 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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°	4260	4260	4260
5°	4220	4260	4233
10°	4182	4224	4204
15°	4123	4190	4161
20°	4059	4155	4105
25°	3980	4095	4048
30°	3899	4031	3994
35°	3811	3962	3926
40°	3712	3883	3834
45°	3608	3790	3718
50°	3500	3669	3573
55°	3373	3530	3422
60°	3229	3363	3259
65°	3043	3160	3046
70°	2800	2913	2769
75°	2466	2577	2428
80°	2004	2091	1980
85°	1396	1488	1451



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.1	3.6
10°-20°	422.5	10.2
20°-30°	630.1	15.1
30°-40°	746.6	17.9
40°-50°	755.5	18.2
50°-60°	659.8	15.9
60°-70°	482.2	11.6
70°-80°	256.6	6.2
80°-90°	59.3	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°	1201.6	28.9
0°-40°	1948.2	46.8
0°-60°	3363.5	80.8
0°-90°	4161.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4161.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1583	1583	1583	1583	1583	
5°	1562	1565	1577	1581	1567	148
15°	1480	1490	1504	1513	1494	417
25°	1340	1357	1379	1384	1363	617
35°	1160	1178	1206	1215	1195	726
45°	948	965	996	997	977	731
55°	719	733	752	742	729	643
65°	478	488	496	486	478	473
75°	237	243	248	239	234	252
85°	45	46	48	49	47	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1582.9	1582.9	1582.9	1582.9	1582.9
2.5°	1570.5	1575.6	1580.9	1583.2	1570.4
5°	1562.3	1565.2	1576.9	1580.6	1567.2
7.5°	1548.7	1553.2	1564.6	1566.2	1553.4
10°	1530.3	1538.2	1545.8	1554.0	1538.4
12.5°	1506.7	1517.4	1530.3	1531.8	1519.9
15°	1480.1	1490.0	1504.1	1513.1	1493.5
17.5°	1450.5	1460.0	1478.2	1479.8	1467.9
20°	1417.3	1429.2	1451.0	1454.7	1433.5
22.5°	1379.7	1395.7	1413.8	1417.5	1401.8
25°	1340.3	1356.8	1379.2	1384.3	1363.4
27.5°	1299.1	1314.9	1340.1	1343.8	1326.1
30°	1254.9	1269.7	1297.4	1303.5	1285.5
32.5°	1210.0	1224.8	1255.5	1260.6	1243.2
35°	1160.2	1178.3	1206.2	1214.6	1195.0
37.5°	1109.4	1127.1	1158.7	1166.3	1145.2
40°	1056.8	1074.3	1105.4	1111.7	1091.4
42.5°	1003.0	1020.5	1053.8	1054.8	1038.0
45°	948.1	964.9	995.9	996.8	977.1
47.5°	892.4	909.4	937.1	933.9	915.5
50°	836.0	852.1	876.4	870.1	853.5
52.5°	777.6	793.3	816.2	806.0	790.3
55°	718.9	733.4	752.5	741.6	729.4
57.5°	659.7	674.4	689.0	678.0	667.4
60°	600.0	612.8	624.9	613.7	605.6
62.5°	539.3	550.3	560.7	550.0	542.4
65°	477.9	487.7	496.2	486.3	478.3
67.5°	416.9	425.2	433.1	422.9	414.4
70°	355.9	363.0	370.2	359.7	351.9
72.5°	295.7	302.0	308.4	298.2	291.4
75°	237.2	242.6	247.9	238.8	233.5
77.5°	181.2	185.9	189.5	183.7	178.6
80°	129.3	132.8	134.9	132.6	127.8
82.5°	83.1	85.6	86.7	86.6	83.4
85°	45.2	46.0	48.2	48.7	47.0
87.5°	17.5	18.6	19.1	20.6	19.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)