

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: P488994

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-4STD-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: P488994
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-LD4-4STD-40-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

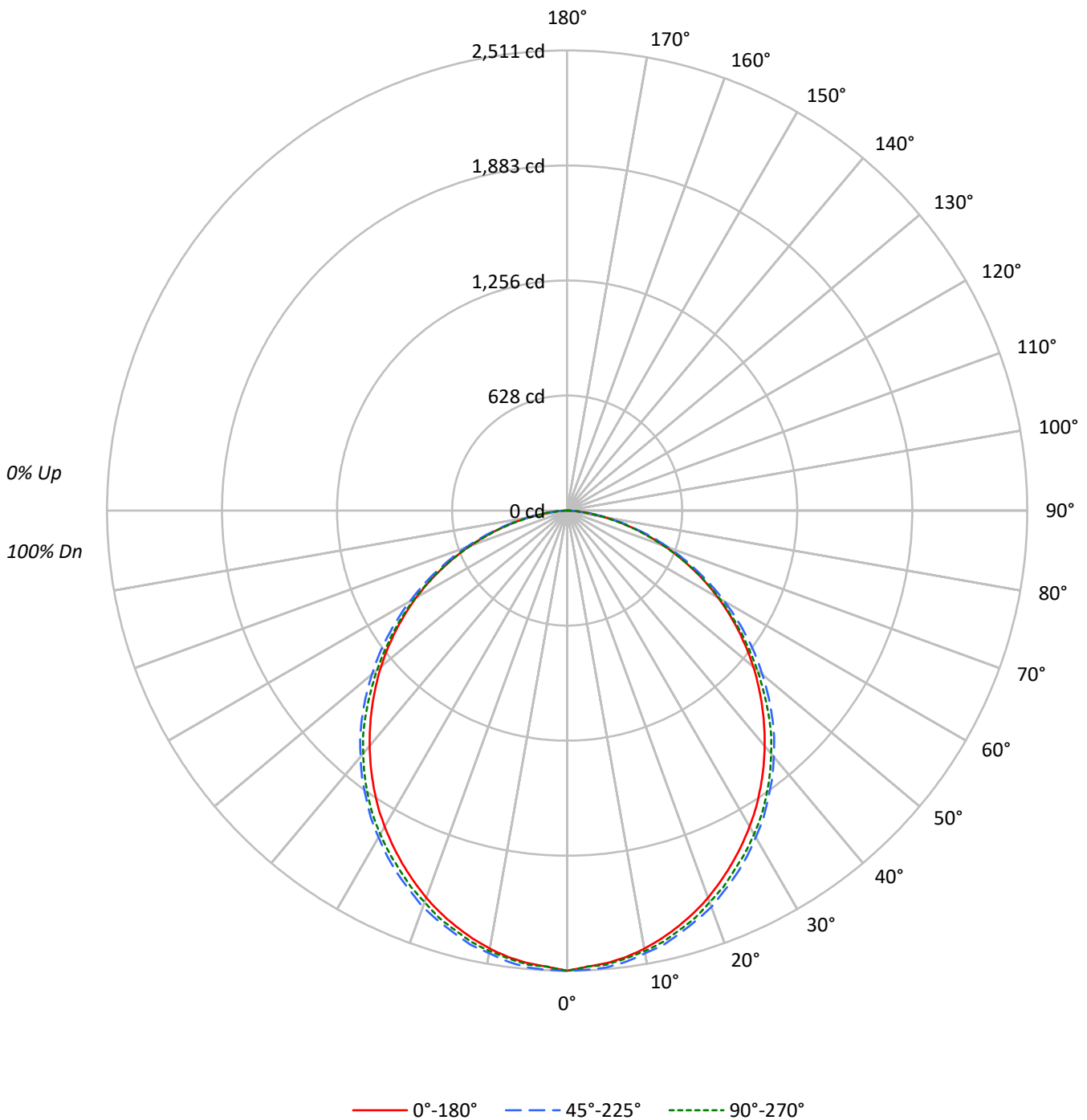
Lumens per Lamp: N/A
Luminaire Lumens: 6602.2 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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°	6758	6758	6758
5°	6695	6758	6716
10°	6634	6701	6669
15°	6542	6648	6601
20°	6439	6592	6513
25°	6314	6497	6422
30°	6186	6396	6337
35°	6047	6287	6228
40°	5890	6161	6082
45°	5724	6013	5899
50°	5552	5821	5668
55°	5351	5601	5429
60°	5123	5336	5171
65°	4828	5013	4832
70°	4442	4622	4393
75°	3911	4088	3852
80°	3178	3316	3143
85°	2214	2359	2303



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.5	3.6
10°-20°	670.2	10.2
20°-30°	999.6	15.1
30°-40°	1184.5	17.9
40°-50°	1198.6	18.2
50°-60°	1046.8	15.9
60°-70°	764.9	11.6
70°-80°	407.0	6.2
80°-90°	94.1	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°	1906.3	28.9
0°-40°	3090.9	46.8
0°-60°	5336.2	80.8
0°-90°	6602.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6602.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2511	2511	2511	2511	2511	
5°	2478	2483	2502	2508	2486	235
15°	2348	2364	2386	2401	2369	662
25°	2126	2152	2188	2196	2163	980
35°	1841	1869	1914	1927	1896	1151
45°	1504	1531	1580	1581	1550	1160
55°	1140	1164	1194	1177	1157	1020
65°	758	774	787	772	759	750
75°	376	385	393	379	370	400
85°	72	73	76	77	75	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2511.2	2511.2	2511.2	2511.2	2511.2
2.5°	2491.6	2499.7	2508.1	2511.8	2491.4
5°	2478.5	2483.2	2501.8	2507.6	2486.4
7.5°	2457.1	2464.1	2482.2	2484.8	2464.4
10°	2427.8	2440.3	2452.4	2465.5	2440.6
12.5°	2390.4	2407.4	2427.8	2430.1	2411.3
15°	2348.2	2363.9	2386.2	2400.6	2369.4
17.5°	2301.1	2316.3	2345.1	2347.7	2328.9
20°	2248.6	2267.4	2301.9	2307.9	2274.2
22.5°	2188.9	2214.3	2243.1	2248.8	2224.0
25°	2126.4	2152.5	2188.1	2196.2	2163.0
27.5°	2061.0	2086.1	2126.1	2131.9	2103.9
30°	1990.8	2014.4	2058.3	2068.0	2039.5
32.5°	1919.7	1943.2	1991.9	2000.0	1972.3
35°	1840.7	1869.4	1913.7	1927.0	1895.9
37.5°	1760.1	1788.1	1838.3	1850.3	1816.8
40°	1676.6	1704.3	1753.8	1763.7	1731.5
42.5°	1591.3	1619.0	1671.9	1673.5	1646.8
45°	1504.2	1530.9	1580.1	1581.4	1550.2
47.5°	1415.7	1442.7	1486.7	1481.7	1452.4
50°	1326.3	1351.9	1390.4	1380.4	1354.0
52.5°	1233.6	1258.5	1294.9	1278.6	1253.8
55°	1140.5	1163.5	1193.9	1176.6	1157.2
57.5°	1046.6	1069.9	1093.1	1075.6	1058.9
60°	951.9	972.3	991.4	973.6	960.8
62.5°	855.6	873.1	889.6	872.6	860.5
65°	758.2	773.7	787.3	771.6	758.8
67.5°	661.4	674.5	687.1	670.9	657.5
70°	564.6	575.9	587.4	570.6	558.3
72.5°	469.1	479.1	489.3	473.0	462.3
75°	376.2	384.9	393.2	378.9	370.5
77.5°	287.5	294.9	300.6	291.5	283.4
80°	205.1	210.6	214.0	210.4	202.8
82.5°	131.9	135.8	137.6	137.4	132.4
85°	71.7	73.0	76.4	77.2	74.6
87.5°	27.7	29.6	30.4	32.7	30.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)