

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: P489469

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-3HI-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: P489469
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-24-4-INS-A12125-LD4-3HI-27-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

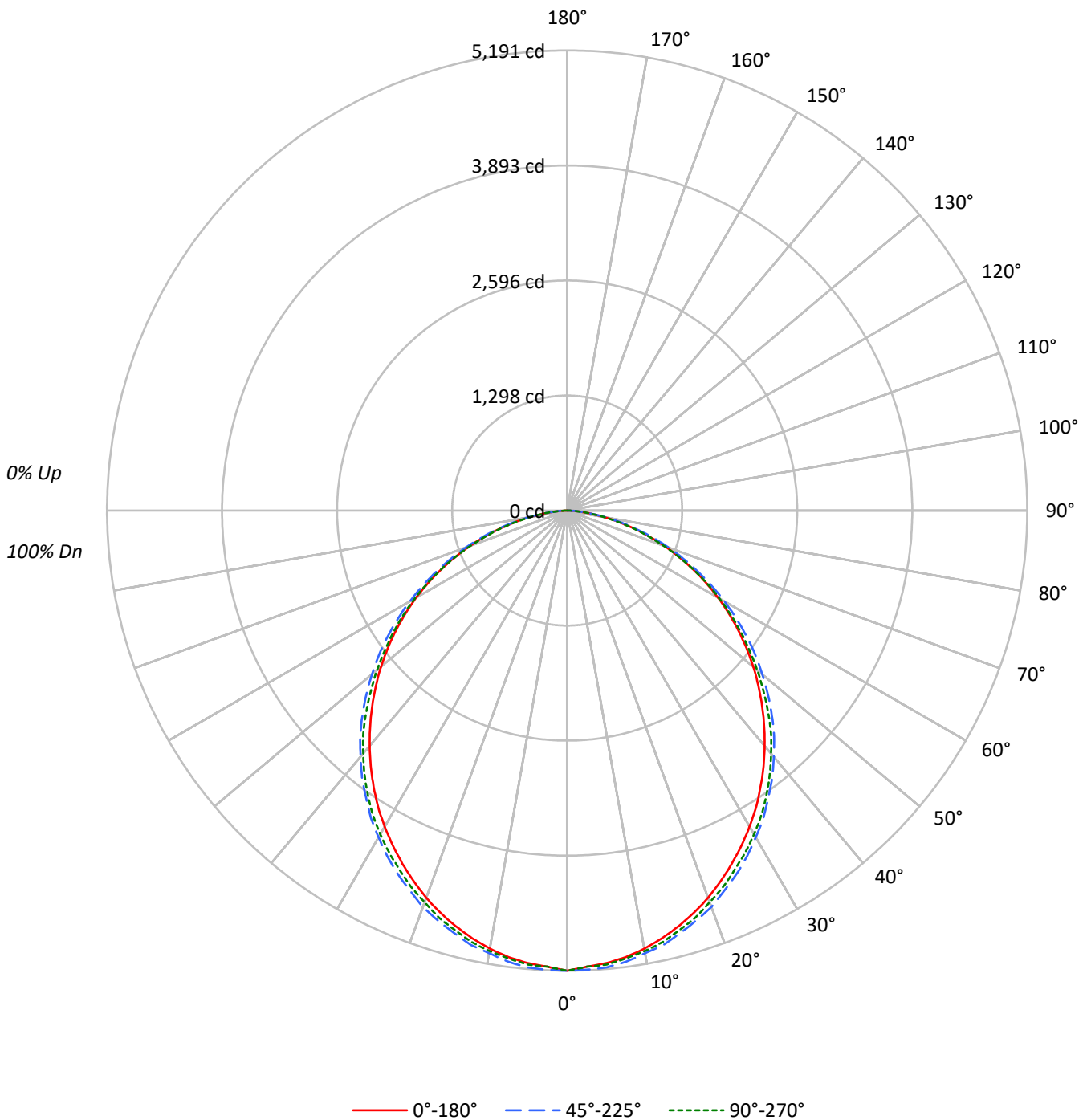
Lumens per Lamp: N/A
Luminaire Lumens: 13648.6 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 129.6
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°	6985	6985	6985
5°	6920	6985	6942
10°	6857	6926	6893
15°	6762	6871	6823
20°	6656	6814	6732
25°	6526	6715	6638
30°	6394	6611	6550
35°	6250	6498	6438
40°	6088	6368	6287
45°	5917	6215	6098
50°	5739	6017	5859
55°	5531	5790	5612
60°	5295	5515	5345
65°	4990	5181	4994
70°	4592	4777	4541
75°	4043	4226	3982
80°	3286	3428	3248
85°	2288	2438	2381



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.9	3.6
10°-20°	1385.5	10.2
20°-30°	2066.4	15.1
30°-40°	2448.8	17.9
40°-50°	2477.8	18.2
50°-60°	2164.0	15.9
60°-70°	1581.3	11.6
70°-80°	841.4	6.2
80°-90°	194.5	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°	3940.9	28.9
0°-40°	6389.7	46.8
0°-60°	11031.4	80.8
0°-90°	13648.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13648.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5191	5191	5191	5191	5191	
5°	5124	5134	5172	5184	5140	486
15°	4854	4887	4933	4963	4898	1369
25°	4396	4450	4523	4540	4472	2025
35°	3805	3865	3956	3984	3919	2380
45°	3110	3165	3266	3269	3205	2399
55°	2358	2405	2468	2432	2392	2108
65°	1568	1599	1628	1595	1569	1551
75°	778	796	813	783	766	827
85°	148	151	158	160	154	188
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5191.4	5191.4	5191.4	5191.4	5191.4
2.5°	5150.9	5167.6	5185.0	5192.5	5150.3
5°	5123.8	5133.6	5172.0	5183.9	5140.1
7.5°	5079.5	5094.1	5131.4	5136.8	5094.6
10°	5018.9	5044.9	5069.7	5096.8	5045.4
12.5°	4941.6	4976.7	5018.9	5023.8	4984.8
15°	4854.5	4886.9	4932.9	4962.6	4898.3
17.5°	4757.1	4788.5	4848.0	4853.4	4814.4
20°	4648.4	4687.3	4758.7	4771.2	4701.4
22.5°	4525.1	4577.5	4637.0	4648.9	4597.5
25°	4395.8	4449.9	4523.4	4540.2	4471.5
27.5°	4260.6	4312.5	4395.3	4407.2	4349.3
30°	4115.6	4164.3	4255.2	4275.2	4216.2
32.5°	3968.5	4017.2	4117.8	4134.5	4077.2
35°	3805.1	3864.6	3956.1	3983.6	3919.3
37.5°	3638.6	3696.4	3800.3	3825.2	3755.9
40°	3466.0	3523.3	3625.6	3646.1	3579.6
42.5°	3289.7	3347.0	3456.3	3459.5	3404.3
45°	3109.6	3164.7	3266.4	3269.1	3204.8
47.5°	2926.7	2982.5	3073.3	3063.0	3002.5
50°	2741.8	2794.8	2874.3	2853.7	2799.1
52.5°	2550.3	2601.7	2676.9	2643.3	2591.9
55°	2357.7	2405.3	2468.1	2432.4	2392.3
57.5°	2163.6	2211.7	2259.8	2223.6	2189.0
60°	1967.8	2009.9	2049.4	2012.6	1986.1
62.5°	1768.7	1804.9	1839.0	1803.9	1779.0
65°	1567.5	1599.4	1627.5	1595.1	1568.6
67.5°	1367.4	1394.4	1420.4	1386.8	1359.3
70°	1167.2	1190.5	1214.3	1179.7	1154.3
72.5°	969.8	990.4	1011.5	977.9	955.7
75°	777.8	795.6	813.0	783.2	765.9
77.5°	594.4	609.6	621.5	602.5	585.8
80°	424.1	435.4	442.4	434.9	419.2
82.5°	272.6	280.7	284.5	284.0	273.7
85°	148.2	150.9	157.9	159.6	154.2
87.5°	57.3	61.1	62.7	67.6	62.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)