

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: P489502

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-4HI-20-120-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: P489502
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-LD4-4HI-20-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

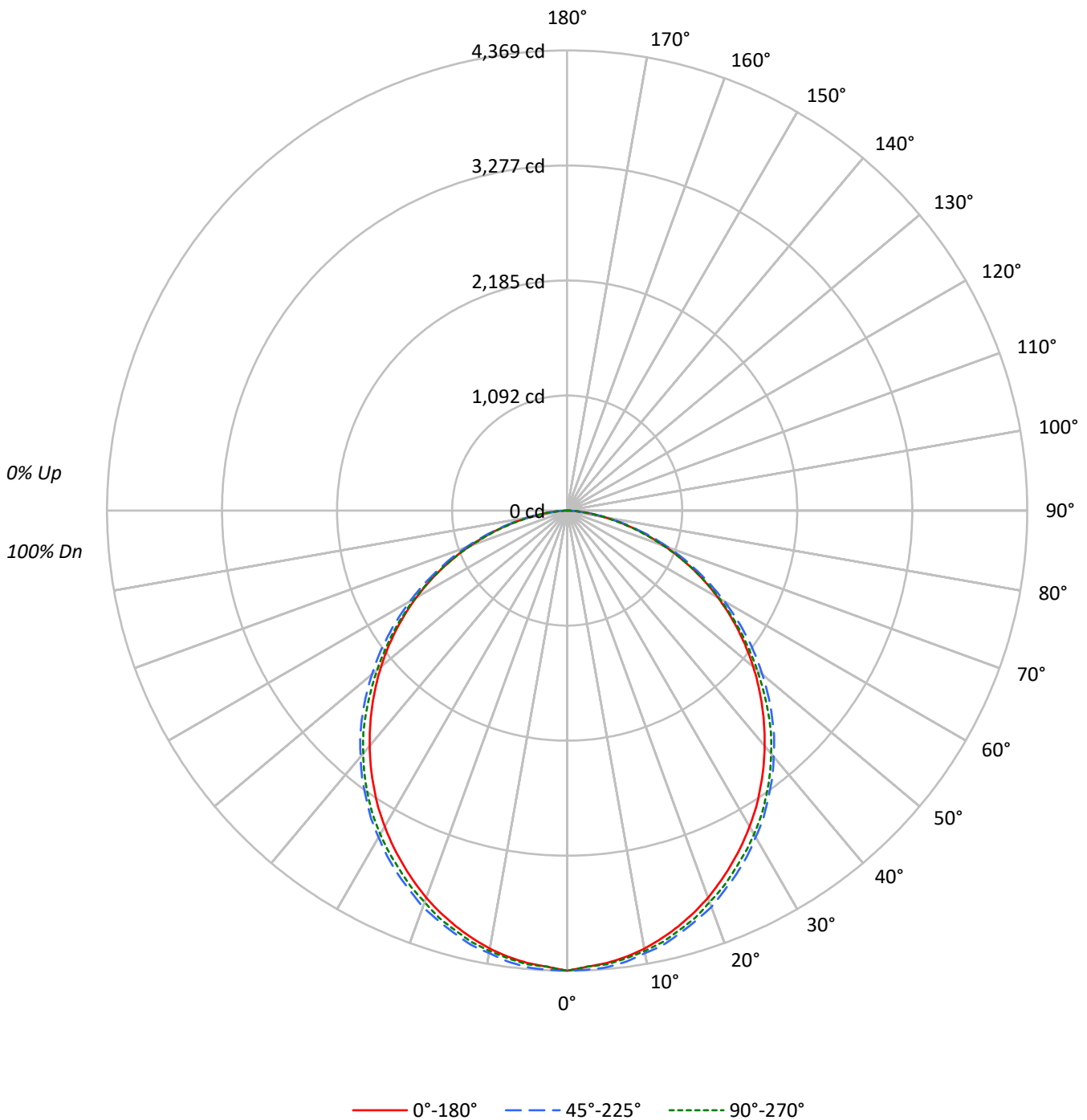
Lumens per Lamp: N/A
Luminaire Lumens: 11485.9 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 172.8
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°	5878	5878	5878
5°	5824	5878	5842
10°	5770	5829	5801
15°	5690	5783	5742
20°	5601	5734	5665
25°	5492	5651	5586
30°	5381	5563	5512
35°	5260	5468	5417
40°	5123	5359	5291
45°	4979	5230	5132
50°	4830	5063	4931
55°	4654	4872	4723
60°	4456	4641	4498
65°	4200	4360	4202
70°	3864	4020	3821
75°	3403	3556	3350
80°	2765	2885	2734
85°	1925	2052	2002



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.5	3.6
10°-20°	1166.0	10.2
20°-30°	1739.0	15.1
30°-40°	2060.7	17.9
40°-50°	2085.1	18.2
50°-60°	1821.1	15.9
60°-70°	1330.8	11.6
70°-80°	708.1	6.2
80°-90°	163.6	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°	3316.4	28.9
0°-40°	5377.2	46.8
0°-60°	9283.4	80.8
0°-90°	11485.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11485.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4369	4369	4369	4369	4369	
5°	4312	4320	4352	4362	4326	409
15°	4085	4113	4151	4176	4122	1152
25°	3699	3745	3807	3821	3763	1704
35°	3202	3252	3329	3352	3298	2003
45°	2617	2663	2749	2751	2697	2019
55°	1984	2024	2077	2047	2013	1774
65°	1319	1346	1370	1342	1320	1305
75°	655	670	684	659	644	696
85°	125	127	133	134	130	158
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4368.8	4368.8	4368.8	4368.8	4368.8
2.5°	4334.7	4348.8	4363.4	4369.7	4334.2
5°	4311.9	4320.1	4352.4	4362.5	4325.6
7.5°	4274.6	4286.9	4318.3	4322.9	4287.4
10°	4223.6	4245.5	4266.4	4289.2	4245.9
12.5°	4158.5	4188.1	4223.6	4227.7	4194.9
15°	4085.2	4112.6	4151.3	4176.3	4122.1
17.5°	4003.3	4029.7	4079.8	4084.3	4051.6
20°	3911.8	3944.6	4004.7	4015.2	3956.4
22.5°	3808.0	3852.2	3902.3	3912.3	3869.0
25°	3699.3	3744.8	3806.7	3820.8	3763.0
27.5°	3585.5	3629.2	3698.8	3708.8	3660.1
30°	3463.5	3504.4	3580.9	3597.8	3548.1
32.5°	3339.7	3380.6	3465.3	3479.4	3431.2
35°	3202.2	3252.3	3329.2	3352.4	3298.2
37.5°	3062.0	3110.7	3198.1	3219.0	3160.8
40°	2916.8	2965.0	3051.1	3068.4	3012.4
42.5°	2768.4	2816.7	2908.6	2911.3	2864.9
45°	2616.8	2663.3	2748.8	2751.1	2696.9
47.5°	2463.0	2509.9	2586.3	2577.7	2526.7
50°	2307.3	2351.9	2418.8	2401.5	2355.6
52.5°	2146.2	2189.4	2252.7	2224.5	2181.2
55°	1984.1	2024.2	2077.0	2046.9	2013.3
57.5°	1820.7	1861.2	1901.7	1871.2	1842.1
60°	1655.9	1691.5	1724.7	1693.7	1671.4
62.5°	1488.4	1518.9	1547.6	1518.0	1497.1
65°	1319.1	1346.0	1369.6	1342.3	1320.0
67.5°	1150.7	1173.5	1195.3	1167.1	1143.9
70°	982.3	1001.9	1021.9	992.7	971.4
72.5°	816.1	833.4	851.2	823.0	804.3
75°	654.6	669.6	684.1	659.1	644.5
77.5°	500.2	513.0	523.0	507.1	493.0
80°	356.9	366.4	372.3	366.0	352.8
82.5°	229.4	236.2	239.4	239.0	230.3
85°	124.7	127.0	132.9	134.3	129.7
87.5°	48.2	51.4	52.8	56.9	52.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)