

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: P489529

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-4STD-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: P489529
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-LD4-4STD-27-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

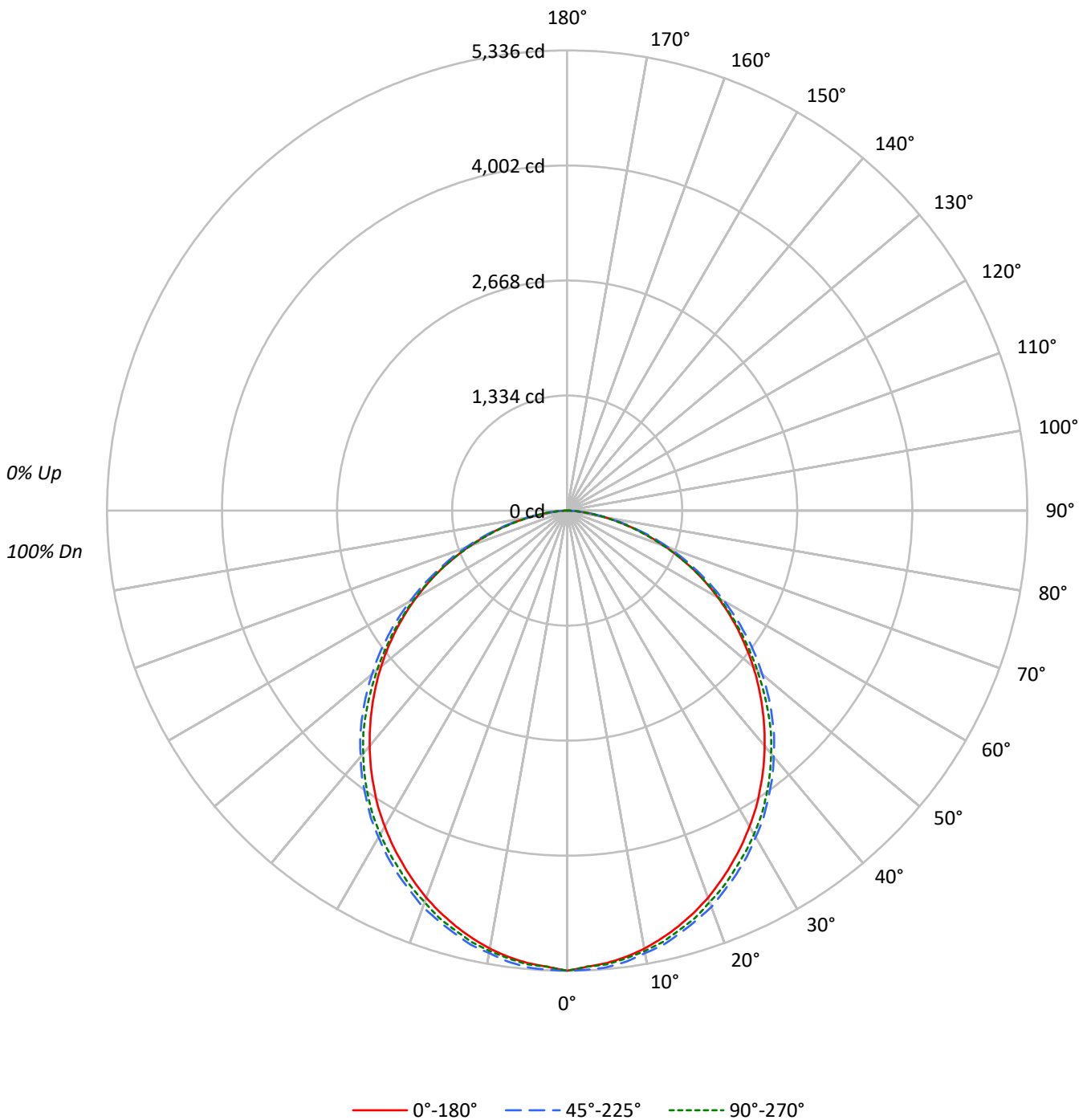
Lumens per Lamp: N/A
Luminaire Lumens: 14027.8 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 133.2
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°	7179	7179	7179
5°	7113	7180	7135
10°	7048	7119	7085
15°	6950	7062	7013
20°	6841	7003	6919
25°	6707	6902	6823
30°	6572	6795	6733
35°	6424	6679	6616
40°	6257	6545	6462
45°	6081	6388	6267
50°	5898	6184	6022
55°	5684	5950	5768
60°	5442	5668	5493
65°	5129	5325	5133
70°	4720	4910	4667
75°	4156	4343	4092
80°	3377	3523	3338
85°	2351	2506	2445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	502.5	3.6
10°-20°	1424.0	10.2
20°-30°	2123.9	15.1
30°-40°	2516.8	17.9
40°-50°	2546.6	18.2
50°-60°	2224.1	15.9
60°-70°	1625.3	11.6
70°-80°	864.8	6.2
80°-90°	199.9	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°	4050.4	28.9
0°-40°	6567.2	46.8
0°-60°	11337.9	80.8
0°-90°	14027.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14027.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5336	5336	5336	5336	5336	
5°	5266	5276	5316	5328	5283	499
15°	4989	5023	5070	5100	5034	1407
25°	4518	4574	4649	4666	4596	2081
35°	3911	3972	4066	4094	4028	2446
45°	3196	3253	3357	3360	3294	2466
55°	2423	2472	2537	2500	2459	2166
65°	1611	1644	1673	1639	1612	1594
75°	799	818	836	805	787	850
85°	152	155	162	164	158	193
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5335.7	5335.7	5335.7	5335.7	5335.7
2.5°	5294.0	5311.2	5329.0	5336.8	5293.4
5°	5266.2	5276.2	5315.7	5327.9	5282.9
7.5°	5220.6	5235.6	5274.0	5279.5	5236.2
10°	5158.3	5185.0	5210.6	5238.4	5185.6
12.5°	5078.8	5115.0	5158.3	5163.3	5123.3
15°	4989.3	5022.7	5069.9	5100.5	5034.4
17.5°	4889.3	4921.5	4982.7	4988.2	4948.2
20°	4777.5	4817.6	4890.9	4903.7	4832.0
22.5°	4650.8	4704.7	4765.9	4778.1	4725.3
25°	4517.9	4573.5	4649.1	4666.4	4595.8
27.5°	4378.9	4432.3	4517.4	4529.6	4470.1
30°	4230.0	4280.0	4373.4	4394.0	4333.4
32.5°	4078.8	4128.8	4232.2	4249.4	4190.5
35°	3910.9	3972.0	4066.0	4094.3	4028.2
37.5°	3739.6	3799.1	3905.9	3931.4	3860.3
40°	3562.3	3621.2	3726.3	3747.4	3679.0
42.5°	3381.1	3440.0	3552.3	3555.6	3498.9
45°	3196.0	3252.7	3357.2	3360.0	3293.8
47.5°	3008.1	3065.3	3158.7	3148.1	3085.9
50°	2817.9	2872.4	2954.1	2933.0	2876.9
52.5°	2621.1	2674.0	2751.2	2716.8	2663.9
55°	2423.2	2472.2	2536.6	2500.0	2458.8
57.5°	2223.7	2273.1	2322.6	2285.4	2249.8
60°	2022.4	2065.8	2106.4	2068.6	2041.3
62.5°	1817.8	1855.1	1890.1	1854.0	1828.4
65°	1611.0	1643.8	1672.7	1639.4	1612.2
67.5°	1405.4	1433.1	1459.8	1425.4	1397.0
70°	1199.7	1223.6	1248.0	1212.5	1186.3
72.5°	996.8	1017.9	1039.6	1005.1	982.3
75°	799.4	817.8	835.5	805.0	787.2
77.5°	611.0	626.5	638.7	619.3	602.1
80°	435.8	447.5	454.7	447.0	430.8
82.5°	280.2	288.5	292.4	291.9	281.3
85°	152.3	155.1	162.3	164.0	158.4
87.5°	58.9	62.8	64.5	69.5	63.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)