

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: P489505

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-4HI-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: P489505
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-27-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

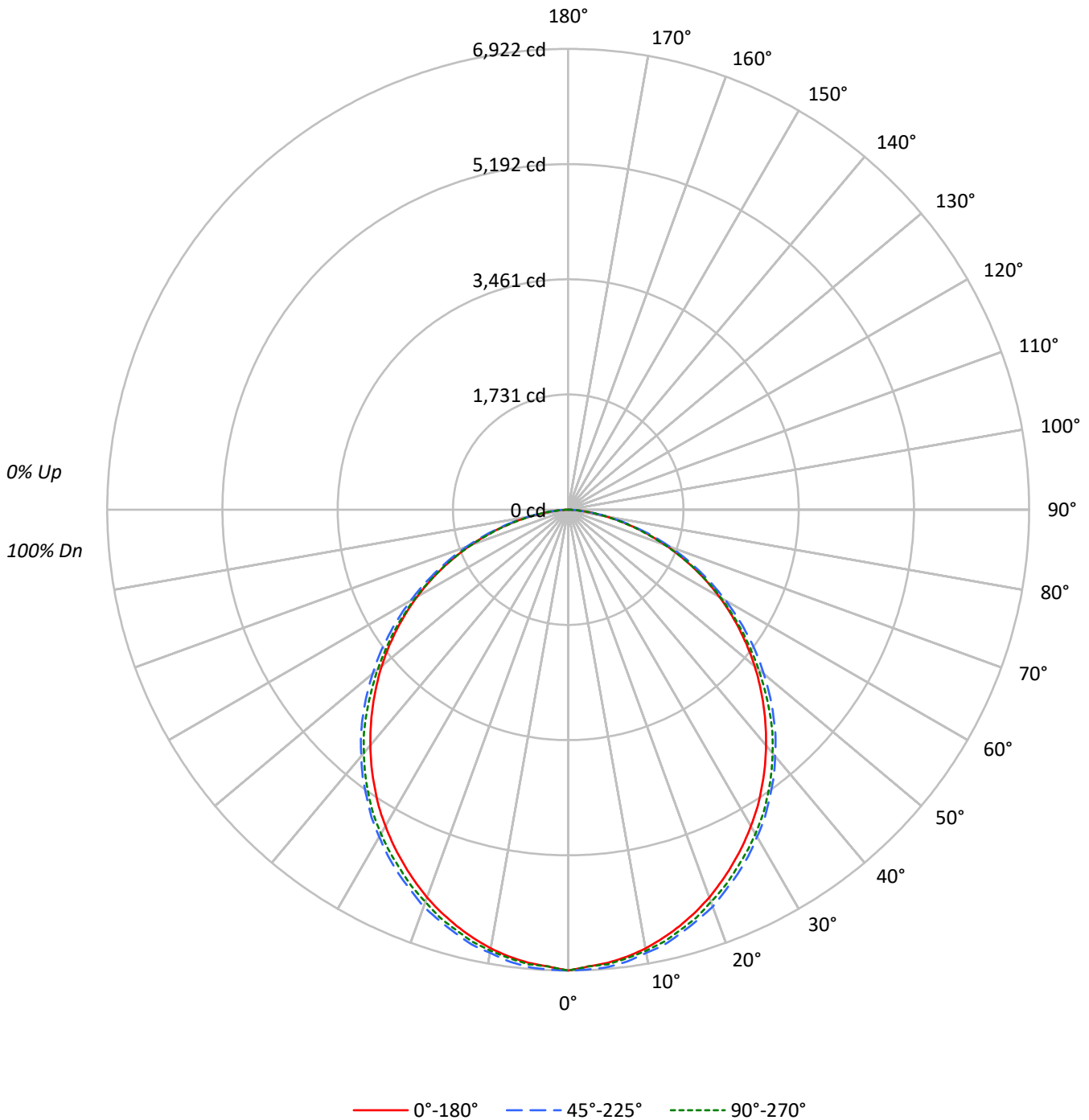
Lumens per Lamp: N/A
Luminaire Lumens: 18198.2 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P489505

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-4HI-27-120-EDD

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°	9313	9313	9313
5°	9227	9314	9256
10°	9143	9235	9191
15°	9016	9162	9098
20°	8874	9085	8976
25°	8701	8954	8851
30°	8526	8815	8734
35°	8333	8664	8583
40°	8117	8491	8383
45°	7889	8287	8131
50°	7652	8022	7812
55°	7374	7720	7483
60°	7060	7353	7126
65°	6654	6909	6658
70°	6122	6369	6054
75°	5391	5635	5309
80°	4381	4571	4331
85°	3051	3251	3172



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	651.9	3.6
10°-20°	1847.4	10.2
20°-30°	2755.3	15.1
30°-40°	3265.0	17.9
40°-50°	3303.7	18.2
50°-60°	2885.3	15.9
60°-70°	2108.4	11.6
70°-80°	1121.9	6.2
80°-90°	259.3	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°	5254.6	28.9
0°-40°	8519.6	46.8
0°-60°	14708.6	80.8
0°-90°	18198.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18198.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6922	6922	6922	6922	6922	
5°	6832	6845	6896	6912	6853	648
15°	6473	6516	6577	6617	6531	1825
25°	5861	5933	6031	6054	5962	2700
35°	5074	5153	5275	5312	5226	3173
45°	4146	4220	4355	4359	4273	3199
55°	3144	3207	3291	3243	3190	2810
65°	2090	2132	2170	2127	2091	2068
75°	1037	1061	1084	1044	1021	1103
85°	198	201	211	213	206	250
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6921.9	6921.9	6921.9	6921.9	6921.9
2.5°	6867.9	6890.2	6913.3	6923.4	6867.1
5°	6831.8	6844.8	6896.0	6911.9	6853.4
7.5°	6772.7	6792.1	6841.9	6849.1	6792.9
10°	6691.9	6726.5	6759.7	6795.7	6727.2
12.5°	6588.8	6635.6	6691.9	6698.4	6646.5
15°	6472.6	6515.9	6577.2	6616.9	6531.1
17.5°	6342.8	6384.7	6464.0	6471.2	6419.3
20°	6197.9	6249.8	6345.0	6361.6	6268.6
22.5°	6033.4	6103.4	6182.7	6198.6	6130.1
25°	5861.1	5933.2	6031.3	6053.6	5962.0
27.5°	5680.8	5750.0	5860.4	5876.2	5799.1
30°	5487.5	5552.4	5673.6	5700.3	5621.6
32.5°	5291.3	5356.3	5490.4	5512.7	5436.3
35°	5073.5	5152.9	5274.8	5311.5	5225.7
37.5°	4851.4	4928.6	5067.1	5100.2	5007.9
40°	4621.4	4697.8	4834.1	4861.5	4772.8
42.5°	4386.3	4462.7	4608.4	4612.7	4539.1
45°	4146.1	4219.7	4355.2	4358.9	4273.0
47.5°	3902.3	3976.6	4097.8	4084.1	4003.3
50°	3655.7	3726.4	3832.4	3805.0	3732.1
52.5°	3400.4	3468.9	3569.2	3524.4	3455.9
55°	3143.7	3207.1	3290.8	3243.2	3189.8
57.5°	2884.7	2948.9	3013.1	2964.8	2918.6
60°	2623.7	2679.9	2732.6	2683.5	2648.2
62.5°	2358.3	2406.6	2452.0	2405.2	2372.0
65°	2090.0	2132.5	2170.1	2126.8	2091.4
67.5°	1823.2	1859.2	1893.8	1849.1	1812.3
70°	1556.3	1587.3	1619.1	1572.9	1539.0
72.5°	1293.1	1320.5	1348.6	1303.9	1274.3
75°	1037.1	1060.9	1083.9	1044.3	1021.2
77.5°	792.6	812.8	828.6	803.4	781.0
80°	565.4	580.6	589.9	579.8	558.9
82.5°	363.5	374.3	379.3	378.6	364.9
85°	197.6	201.2	210.6	212.8	205.5
87.5°	76.4	81.5	83.7	90.1	82.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)