

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: P489568

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-5STD-35-120-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: P489568
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-LD4-5STD-35-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

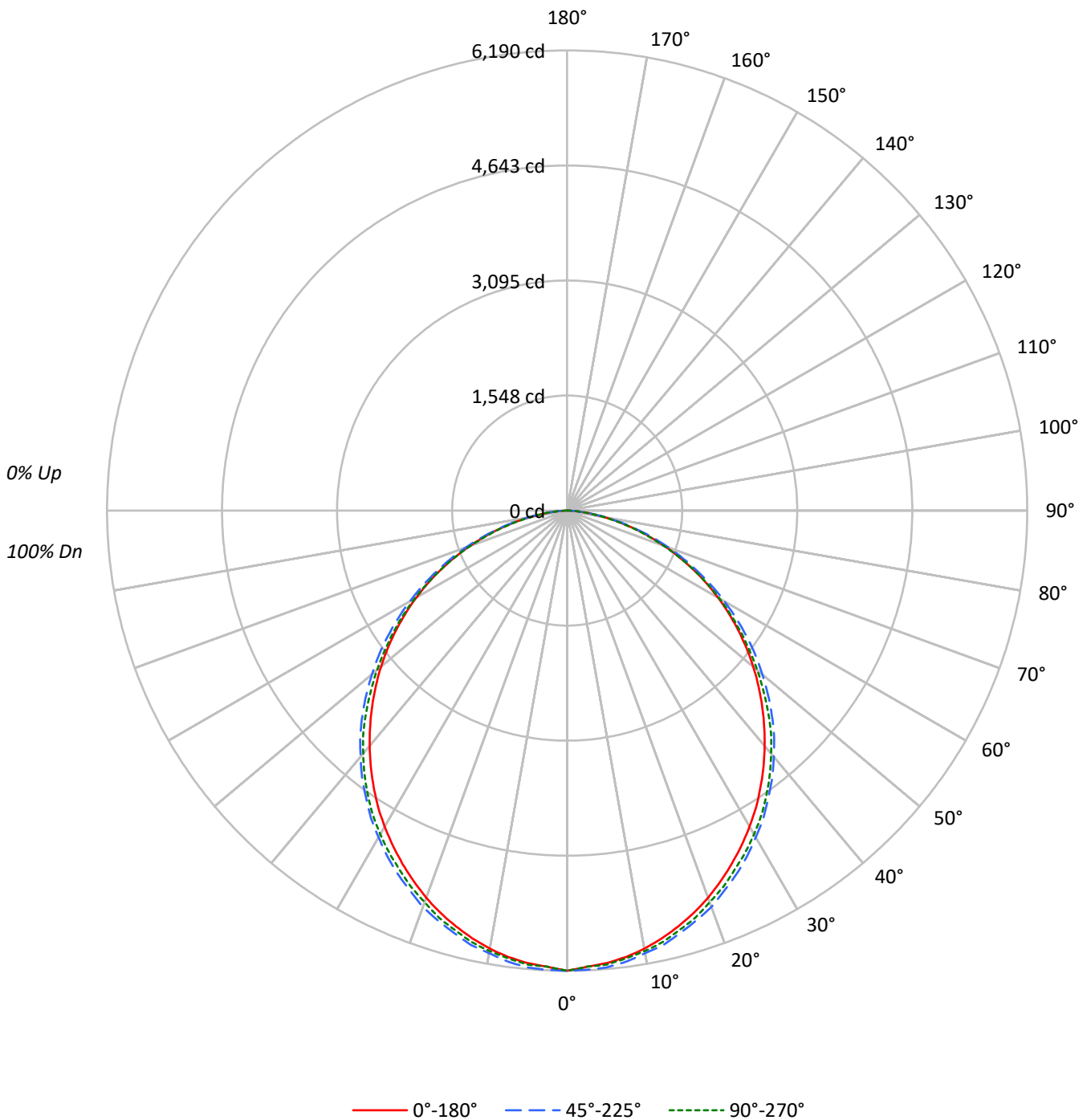
Lumens per Lamp: N/A
Luminaire Lumens: 16275.2 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 166.5
Input Voltage (V): NR
Input Current (A_{in}): 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°	8329	8329	8329
5°	8252	8330	8278
10°	8177	8260	8220
15°	8063	8194	8136
20°	7937	8125	8027
25°	7782	8008	7916
30°	7625	7883	7811
35°	7453	7749	7676
40°	7259	7593	7497
45°	7056	7411	7272
50°	6844	7174	6987
55°	6595	6904	6692
60°	6314	6576	6373
65°	5951	6179	5955
70°	5476	5696	5415
75°	4822	5039	4748
80°	3918	4088	3873
85°	2728	2907	2837



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	583.0	3.6
10°-20°	1652.2	10.2
20°-30°	2464.1	15.1
30°-40°	2920.0	17.9
40°-50°	2954.6	18.2
50°-60°	2580.4	15.9
60°-70°	1885.6	11.6
70°-80°	1003.3	6.2
80°-90°	231.9	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°	4699.3	28.9
0°-40°	7619.3	46.8
0°-60°	13154.3	80.8
0°-90°	16275.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16275.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6190	6190	6190	6190	6190	
5°	6110	6122	6167	6182	6129	579
15°	5789	5827	5882	5918	5841	1632
25°	5242	5306	5394	5414	5332	2415
35°	4537	4608	4717	4750	4674	2838
45°	3708	3774	3895	3898	3822	2861
55°	2812	2868	2943	2900	2853	2513
65°	1869	1907	1941	1902	1870	1850
75°	928	949	969	934	913	986
85°	177	180	188	190	184	224
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6190.5	6190.5	6190.5	6190.5	6190.5
2.5°	6142.1	6162.1	6182.8	6191.8	6141.5
5°	6109.9	6121.5	6167.3	6181.5	6129.2
7.5°	6057.0	6074.4	6118.9	6125.4	6075.1
10°	5984.8	6015.7	6045.4	6077.6	6016.4
12.5°	5892.5	5934.5	5984.8	5990.6	5944.1
15°	5788.7	5827.4	5882.2	5917.7	5840.9
17.5°	5672.6	5710.0	5780.9	5787.4	5741.0
20°	5542.9	5589.4	5674.5	5689.4	5606.2
22.5°	5395.9	5458.5	5529.4	5543.6	5482.3
25°	5241.7	5306.2	5394.0	5414.0	5332.0
27.5°	5080.5	5142.4	5241.1	5255.3	5186.3
30°	4907.6	4965.7	5074.0	5097.9	5027.6
32.5°	4732.2	4790.3	4910.2	4930.2	4861.9
35°	4537.4	4608.4	4717.4	4750.3	4673.5
37.5°	4338.8	4407.8	4531.6	4561.3	4478.7
40°	4133.0	4201.4	4323.3	4347.8	4268.5
42.5°	3922.8	3991.1	4121.4	4125.3	4059.5
45°	3708.0	3773.8	3895.0	3898.3	3821.5
47.5°	3490.0	3556.4	3664.8	3652.5	3580.3
50°	3269.4	3332.6	3427.4	3402.9	3337.8
52.5°	3041.1	3102.3	3192.0	3152.0	3090.7
55°	2811.5	2868.2	2943.0	2900.5	2852.7
57.5°	2579.9	2637.3	2694.7	2651.5	2610.2
60°	2346.4	2396.7	2443.8	2400.0	2368.4
62.5°	2109.1	2152.3	2192.9	2151.0	2121.3
65°	1869.1	1907.2	1940.7	1902.0	1870.4
67.5°	1630.5	1662.8	1693.7	1653.7	1620.8
70°	1391.9	1419.6	1448.0	1406.7	1376.4
72.5°	1156.4	1181.0	1206.1	1166.1	1139.7
75°	927.5	948.8	969.4	933.9	913.3
77.5°	708.8	726.9	741.1	718.5	698.5
80°	505.7	519.2	527.6	518.6	499.9
82.5°	325.1	334.7	339.3	338.6	326.4
85°	176.7	179.9	188.3	190.3	183.8
87.5°	68.4	72.9	74.8	80.6	74.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)