

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: P489508

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-4HI-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: P489508
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-35-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

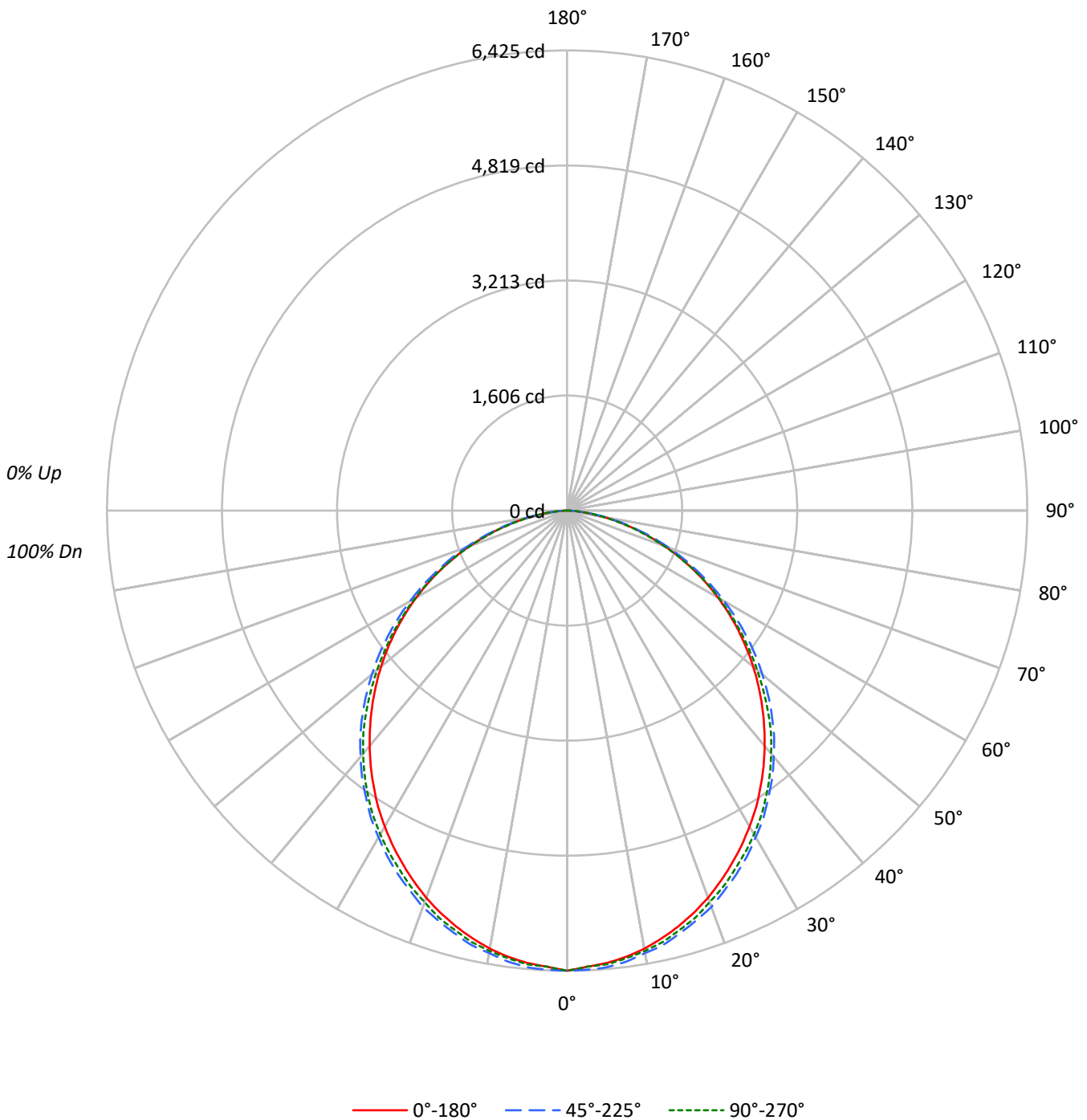
Lumens per Lamp: N/A
Luminaire Lumens: 16891.0 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P489508

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-4HI-35-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P489508

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-4HI-35-120-EDD-90

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°	8644	8644	8644
5°	8564	8645	8591
10°	8486	8572	8531
15°	8368	8504	8444
20°	8237	8432	8331
25°	8076	8311	8215
30°	7913	8181	8107
35°	7735	8042	7967
40°	7534	7881	7781
45°	7323	7692	7547
50°	7102	7446	7251
55°	6845	7165	6945
60°	6553	6825	6614
65°	6176	6413	6180
70°	5683	5912	5620
75°	5004	5230	4927
80°	4066	4243	4020
85°	2831	3018	2946



TEST NUMBER: P489508

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-4HI-35-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	605.1	3.6
10°-20°	1714.7	10.2
20°-30°	2557.4	15.1
30°-40°	3030.5	17.9
40°-50°	3066.4	18.2
50°-60°	2678.0	15.9
60°-70°	1957.0	11.6
70°-80°	1041.3	6.2
80°-90°	240.7	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°	4877.1	28.9
0°-40°	7907.6	46.8
0°-60°	13652.0	80.8
0°-90°	16891.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16891.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6425	6425	6425	6425	6425	
5°	6341	6353	6401	6415	6361	601
15°	6008	6048	6105	6142	6062	1694
25°	5440	5507	5598	5619	5534	2506
35°	4709	4783	4896	4930	4850	2945
45°	3848	3917	4042	4046	3966	2969
55°	2918	2977	3054	3010	2961	2608
65°	1940	1979	2014	1974	1941	1920
75°	963	985	1006	969	948	1023
85°	183	187	196	198	191	232
90°	0	0	0	0	0	



TEST NUMBER: P489508

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-4HI-35-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6424.7	6424.7	6424.7	6424.7	6424.7
2.5°	6374.5	6395.3	6416.7	6426.1	6373.9
5°	6341.1	6353.1	6400.6	6415.4	6361.1
7.5°	6286.2	6304.2	6350.4	6357.1	6304.9
10°	6211.2	6243.3	6274.1	6307.6	6244.0
12.5°	6115.5	6159.0	6211.2	6217.2	6169.0
15°	6007.7	6047.9	6104.8	6141.6	6061.9
17.5°	5887.2	5926.0	5999.7	6006.4	5958.2
20°	5752.7	5800.9	5889.2	5904.6	5818.3
22.5°	5600.1	5665.0	5738.6	5753.3	5689.8
25°	5440.1	5507.0	5598.0	5618.8	5533.8
27.5°	5272.7	5337.0	5439.4	5454.1	5382.5
30°	5093.3	5153.6	5266.0	5290.8	5217.8
32.5°	4911.3	4971.5	5096.0	5116.8	5045.8
35°	4709.1	4782.7	4895.9	4930.0	4850.3
37.5°	4502.9	4574.6	4703.1	4733.9	4648.2
40°	4289.4	4360.4	4486.9	4512.3	4430.0
42.5°	4071.2	4142.1	4277.4	4281.4	4213.1
45°	3848.3	3916.6	4042.4	4045.7	3966.1
47.5°	3622.0	3691.0	3803.4	3790.7	3715.7
50°	3393.1	3458.7	3557.1	3531.7	3464.1
52.5°	3156.1	3219.7	3312.8	3271.3	3207.7
55°	2917.8	2976.7	3054.4	3010.2	2960.7
57.5°	2677.5	2737.1	2796.7	2751.8	2709.0
60°	2435.2	2487.4	2536.3	2490.8	2458.0
62.5°	2188.9	2233.7	2275.9	2232.4	2201.6
65°	1939.9	1979.4	2014.2	1974.0	1941.2
67.5°	1692.2	1725.7	1757.8	1716.3	1682.2
70°	1444.5	1473.3	1502.8	1459.9	1428.5
72.5°	1200.2	1225.6	1251.7	1210.2	1182.8
75°	962.6	984.7	1006.1	969.3	947.8
77.5°	735.7	754.4	769.1	745.7	724.9
80°	524.8	538.9	547.6	538.2	518.8
82.5°	337.4	347.4	352.1	351.4	338.7
85°	183.4	186.8	195.5	197.5	190.8
87.5°	71.0	75.6	77.6	83.7	77.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)