

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: P489525

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-4LO-50-120-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: P489525  
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-LD4-4LO-50-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

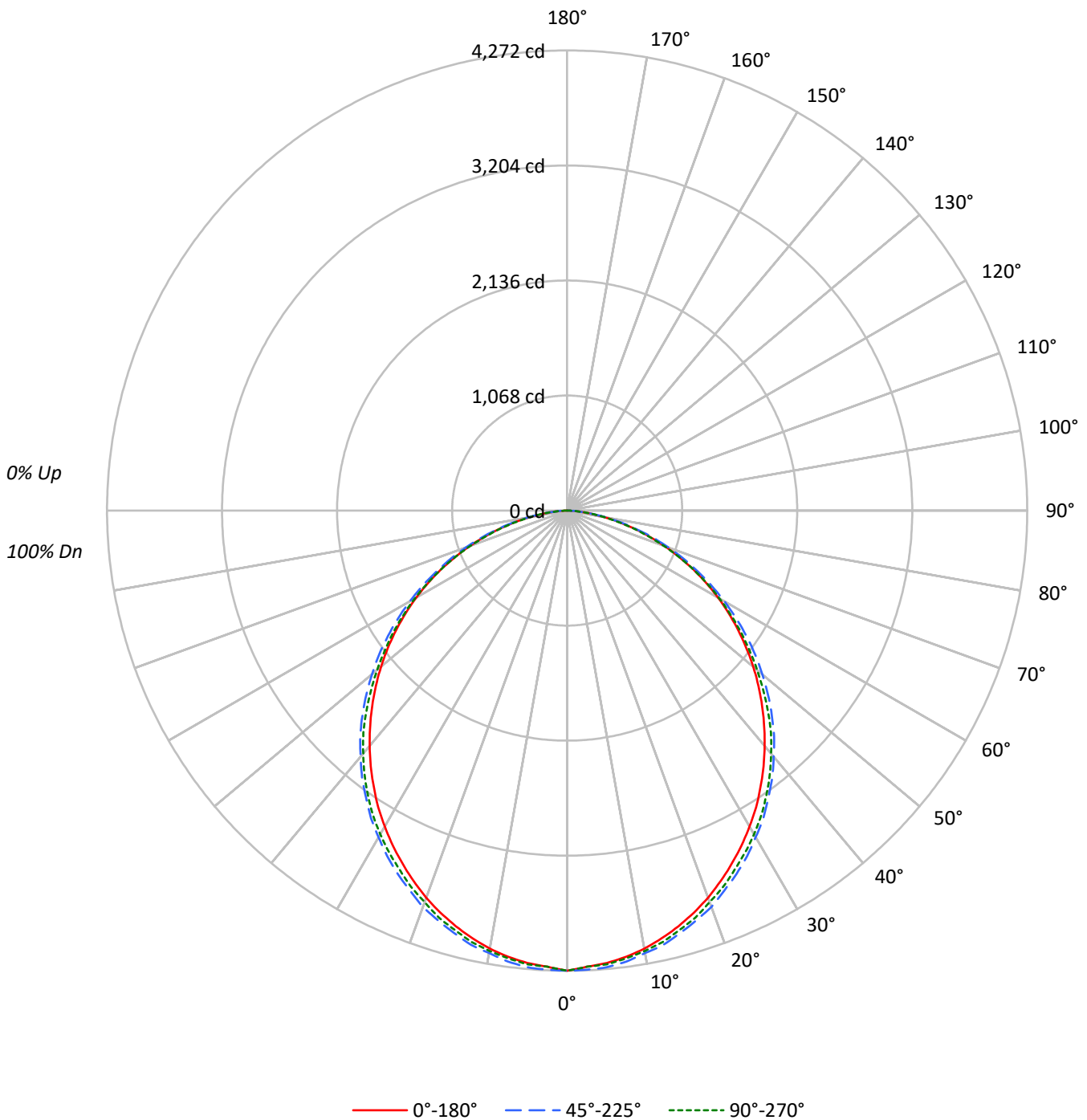
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11231.0 lumens  
Efficiency: N/A  
Efficacy: 120.0 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): 93.6  
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°	5748	5748	5748
5°	5695	5748	5713
10°	5642	5700	5672
15°	5564	5654	5614
20°	5477	5607	5539
25°	5370	5526	5463
30°	5262	5440	5390
35°	5143	5347	5297
40°	5009	5240	5174
45°	4869	5114	5018
50°	4722	4951	4821
55°	4551	4764	4618
60°	4357	4538	4398
65°	4106	4264	4109
70°	3779	3931	3736
75°	3327	3478	3276
80°	2703	2821	2672
85°	1883	2007	1958



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	402.3	3.6
10°-20°	1140.1	10.2
20°-30°	1700.4	15.1
30°-40°	2015.0	17.9
40°-50°	2038.9	18.2
50°-60°	1780.6	15.9
60°-70°	1301.2	11.6
70°-80°	692.4	6.2
80°-90°	160.0	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°	3242.8	28.9
0°-40°	5257.8	46.8
0°-60°	9077.4	80.8
0°-90°	11231.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11231.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4272	4272	4272	4272	4272	
5°	4216	4224	4256	4266	4230	400
15°	3995	4021	4059	4084	4031	1126
25°	3617	3662	3722	3736	3680	1666
35°	3131	3180	3255	3278	3225	1958
45°	2559	2604	2688	2690	2637	1974
55°	1940	1979	2031	2002	1969	1734
65°	1290	1316	1339	1312	1291	1276
75°	640	655	669	644	630	680
85°	122	124	130	131	127	154
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4271.9	4271.9	4271.9	4271.9	4271.9
2.5°	4238.5	4252.3	4266.5	4272.8	4238.0
5°	4216.2	4224.2	4255.8	4265.6	4229.6
7.5°	4179.7	4191.8	4222.5	4226.9	4192.2
10°	4129.9	4151.3	4171.7	4194.0	4151.7
12.5°	4066.2	4095.2	4129.9	4133.9	4101.9
15°	3994.6	4021.3	4059.1	4083.6	4030.6
17.5°	3914.5	3940.3	3989.2	3993.7	3961.7
20°	3825.0	3857.1	3915.8	3926.0	3868.6
22.5°	3723.5	3766.7	3815.7	3825.5	3783.2
25°	3617.2	3661.7	3722.2	3736.0	3679.5
27.5°	3505.9	3548.6	3616.7	3626.5	3578.9
30°	3386.6	3426.7	3501.4	3517.9	3469.4
32.5°	3265.5	3305.6	3388.4	3402.2	3355.0
35°	3131.1	3180.1	3255.3	3278.0	3225.0
37.5°	2994.0	3041.7	3127.1	3147.6	3090.6
40°	2852.1	2899.2	2983.4	3000.3	2945.5
42.5°	2707.0	2754.2	2844.1	2846.7	2801.3
45°	2558.8	2604.2	2687.8	2690.1	2637.1
47.5°	2408.3	2454.2	2528.9	2520.5	2470.6
50°	2256.1	2299.7	2365.2	2348.2	2303.3
52.5°	2098.5	2140.8	2202.7	2175.1	2132.8
55°	1940.1	1979.3	2030.9	2001.5	1968.6
57.5°	1780.3	1819.9	1859.5	1829.7	1801.2
60°	1619.2	1653.9	1686.4	1656.1	1634.3
62.5°	1455.4	1485.2	1513.3	1484.3	1463.9
65°	1289.8	1316.1	1339.2	1312.5	1290.7
67.5°	1125.2	1147.4	1168.8	1141.2	1118.5
70°	960.5	979.6	999.2	970.7	949.8
72.5°	798.0	814.9	832.3	804.7	786.5
75°	640.0	654.7	669.0	644.5	630.2
77.5°	489.1	501.6	511.4	495.8	482.0
80°	348.9	358.3	364.1	357.8	344.9
82.5°	224.3	231.0	234.1	233.7	225.2
85°	122.0	124.2	130.0	131.3	126.8
87.5°	47.2	50.3	51.6	55.6	51.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)