

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: P489538

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-5HI-20-120-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: P489538  
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-LD4-5HI-20-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

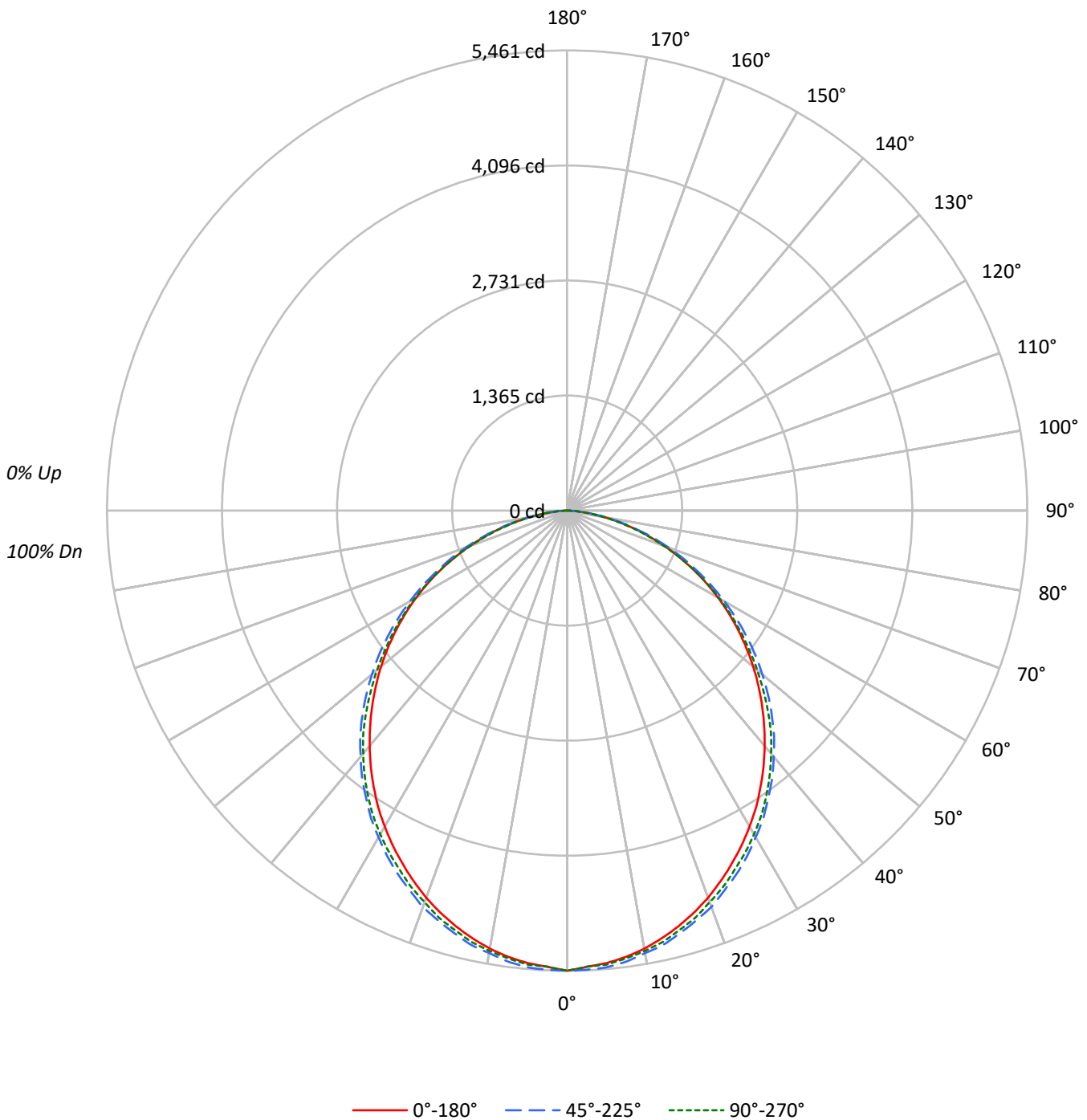
Lumens per Lamp: N/A  
Luminaire Lumens: 14357.3 lumens  
Efficiency: N/A  
Efficacy: 66.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 216  
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°	7348	7348	7348
5°	7280	7348	7303
10°	7213	7286	7251
15°	7113	7228	7177
20°	7001	7168	7081
25°	6865	7064	6983
30°	6726	6954	6891
35°	6575	6835	6772
40°	6404	6699	6614
45°	6224	6538	6415
50°	6037	6329	6163
55°	5818	6090	5903
60°	5570	5801	5622
65°	5250	5450	5253
70°	4830	5025	4777
75°	4253	4446	4188
80°	3457	3606	3417
85°	2407	2564	2504



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	514.3	3.6
10°-20°	1457.5	10.2
20°-30°	2173.7	15.1
30°-40°	2575.9	17.9
40°-50°	2606.4	18.2
50°-60°	2276.3	15.9
60°-70°	1663.4	11.6
70°-80°	885.1	6.2
80°-90°	204.6	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°	4145.5	28.9
0°-40°	6721.4	46.8
0°-60°	11604.2	80.8
0°-90°	14357.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14357.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5461	5461	5461	5461	5461	
5°	5390	5400	5440	5453	5407	511
15°	5106	5141	5189	5220	5153	1440
25°	4624	4681	4758	4776	4704	2130
35°	4003	4065	4162	4190	4123	2503
45°	3271	3329	3436	3439	3371	2523
55°	2480	2530	2596	2559	2517	2217
65°	1649	1682	1712	1678	1650	1632
75°	818	837	855	824	806	870
85°	156	159	166	168	162	197
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5461.0	5461.0	5461.0	5461.0	5461.0
2.5°	5418.3	5436.0	5454.2	5462.1	5417.8
5°	5389.9	5400.1	5440.5	5453.0	5407.0
7.5°	5343.2	5358.6	5397.8	5403.5	5359.2
10°	5279.5	5306.8	5333.0	5361.4	5307.4
12.5°	5198.1	5235.1	5279.5	5284.6	5243.7
15°	5106.5	5140.7	5189.0	5220.3	5152.6
17.5°	5004.1	5037.1	5099.7	5105.4	5064.4
20°	4889.8	4930.7	5005.8	5018.9	4945.5
22.5°	4760.0	4815.2	4877.8	4890.3	4836.3
25°	4624.0	4680.9	4758.3	4776.0	4703.7
27.5°	4481.8	4536.4	4623.5	4636.0	4575.1
30°	4329.3	4380.5	4476.1	4497.2	4435.1
32.5°	4174.6	4225.8	4331.6	4349.2	4288.9
35°	4002.7	4065.3	4161.5	4190.5	4122.8
37.5°	3827.5	3888.4	3997.6	4023.8	3951.0
40°	3646.0	3706.3	3813.8	3835.4	3765.5
42.5°	3460.5	3520.8	3635.7	3639.2	3581.1
45°	3271.0	3329.1	3436.0	3438.9	3371.2
47.5°	3078.7	3137.3	3232.9	3222.1	3158.4
50°	2884.1	2939.9	3023.5	3001.9	2944.4
52.5°	2682.7	2736.8	2815.8	2780.6	2726.5
55°	2480.2	2530.2	2596.2	2558.7	2516.6
57.5°	2275.9	2326.5	2377.2	2339.0	2302.6
60°	2069.9	2114.3	2155.8	2117.1	2089.3
62.5°	1860.5	1898.7	1934.5	1897.5	1871.4
65°	1648.9	1682.5	1712.0	1677.9	1650.0
67.5°	1438.4	1466.8	1494.1	1458.8	1429.8
70°	1227.8	1252.3	1277.3	1240.9	1214.2
72.5°	1020.2	1041.8	1064.0	1028.7	1005.4
75°	818.2	837.0	855.2	823.9	805.7
77.5°	625.3	641.2	653.8	633.8	616.2
80°	446.1	458.0	465.4	457.5	441.0
82.5°	286.8	295.3	299.3	298.7	287.9
85°	155.9	158.7	166.1	167.8	162.2
87.5°	60.3	64.3	66.0	71.1	65.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)