

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: P489831

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-3HI-30-120-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: P489831  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387254)  
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-P12125-LD4-3HI-30-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

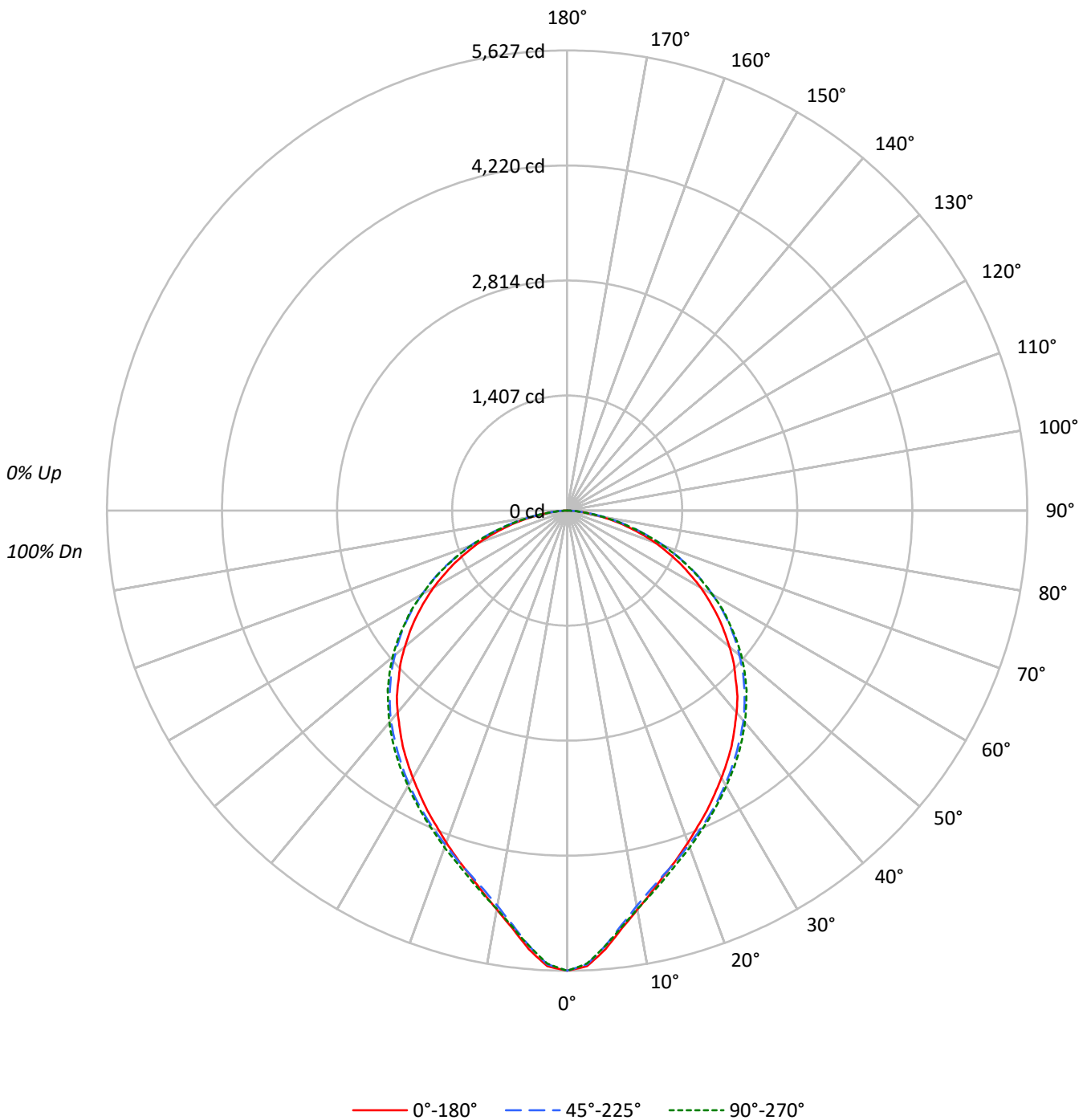
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13069.4 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 129.6  
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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	7571	7571	7571
5°	7269	7218	7218
10°	6765	6704	6756
15°	6420	6408	6471
20°	6184	6229	6277
25°	6007	6105	6141
30°	5863	6007	6044
35°	5762	5930	5990
40°	5660	5890	5939
45°	5543	5832	5902
50°	5421	5759	5836
55°	5270	5676	5699
60°	5081	5520	5509
65°	4816	5308	5273
70°	4497	4950	4890
75°	3969	4386	4341
80°	3224	3574	3398
85°	2235	2279	2192



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	497.2	3.8
10°-20°	1302.3	10.0
20°-30°	1893.8	14.5
30°-40°	2253.5	17.2
40°-50°	2340.0	17.9
50°-60°	2119.9	16.2
60°-70°	1599.6	12.2
70°-80°	871.6	6.7
80°-90°	191.5	1.5
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
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0°-30°	3693.2	28.3
0°-40°	5946.8	45.5
0°-60°	10406.6	79.6
0°-90°	13069.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13069.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5627	5627	5627	5627	5627	
5°	5382	5369	5344	5341	5344	499
15°	4609	4597	4600	4631	4645	1301
25°	4046	4080	4112	4146	4136	1865
35°	3508	3550	3610	3665	3647	2193
45°	2913	2965	3065	3099	3102	2252
55°	2247	2300	2420	2436	2430	2006
65°	1513	1556	1667	1665	1656	1495
75°	763	794	844	849	835	813
85°	145	146	148	146	142	183
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5626.6	5626.6	5626.6	5626.6	5626.6
2.5°	5577.3	5571.7	5553.4	5546.4	5545.0
5°	5382.0	5369.3	5343.9	5341.2	5343.9
7.5°	5148.6	5134.4	5109.2	5119.0	5131.7
10°	4951.7	4916.6	4906.7	4920.8	4944.7
12.5°	4775.9	4747.8	4739.4	4775.9	4792.9
15°	4608.6	4597.4	4600.2	4631.2	4645.2
17.5°	4463.9	4456.8	4475.1	4499.0	4506.1
20°	4319.0	4333.1	4350.0	4375.3	4383.7
22.5°	4177.1	4203.7	4231.9	4265.6	4254.4
25°	4046.3	4080.0	4112.4	4146.1	4136.3
27.5°	3907.1	3946.4	3991.5	4028.0	4013.9
30°	3773.5	3822.7	3866.3	3911.3	3890.2
32.5°	3641.4	3687.8	3739.8	3794.6	3770.7
35°	3507.8	3550.0	3610.5	3665.3	3647.0
37.5°	3360.2	3412.2	3481.0	3528.9	3516.3
40°	3222.4	3270.2	3353.2	3384.1	3381.3
42.5°	3083.2	3122.6	3209.8	3244.9	3239.3
45°	2913.1	2965.1	3064.9	3098.7	3101.5
47.5°	2762.7	2806.3	2913.1	2939.8	2945.4
50°	2589.8	2644.6	2751.4	2783.7	2788.0
52.5°	2419.6	2478.6	2588.3	2610.8	2615.1
55°	2246.6	2300.1	2419.6	2436.5	2429.5
57.5°	2065.3	2130.0	2239.7	2248.1	2255.1
60°	1888.1	1944.4	2051.2	2062.5	2047.1
62.5°	1695.6	1753.2	1862.9	1865.6	1853.0
65°	1512.7	1556.4	1667.4	1664.6	1656.2
67.5°	1321.5	1374.9	1456.6	1459.3	1452.4
70°	1143.0	1179.5	1258.3	1259.7	1242.9
72.5°	950.5	989.8	1053.0	1044.6	1040.4
75°	763.4	794.4	843.6	849.2	835.1
77.5°	591.9	614.4	651.0	646.8	631.2
80°	416.1	434.4	461.2	455.6	438.6
82.5°	265.7	277.0	293.9	286.8	279.8
85°	144.8	146.2	147.6	146.2	142.0
87.5°	53.4	54.9	54.9	53.4	49.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)