

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: P489830

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-3HI-30-120-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: P489830  
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-90  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

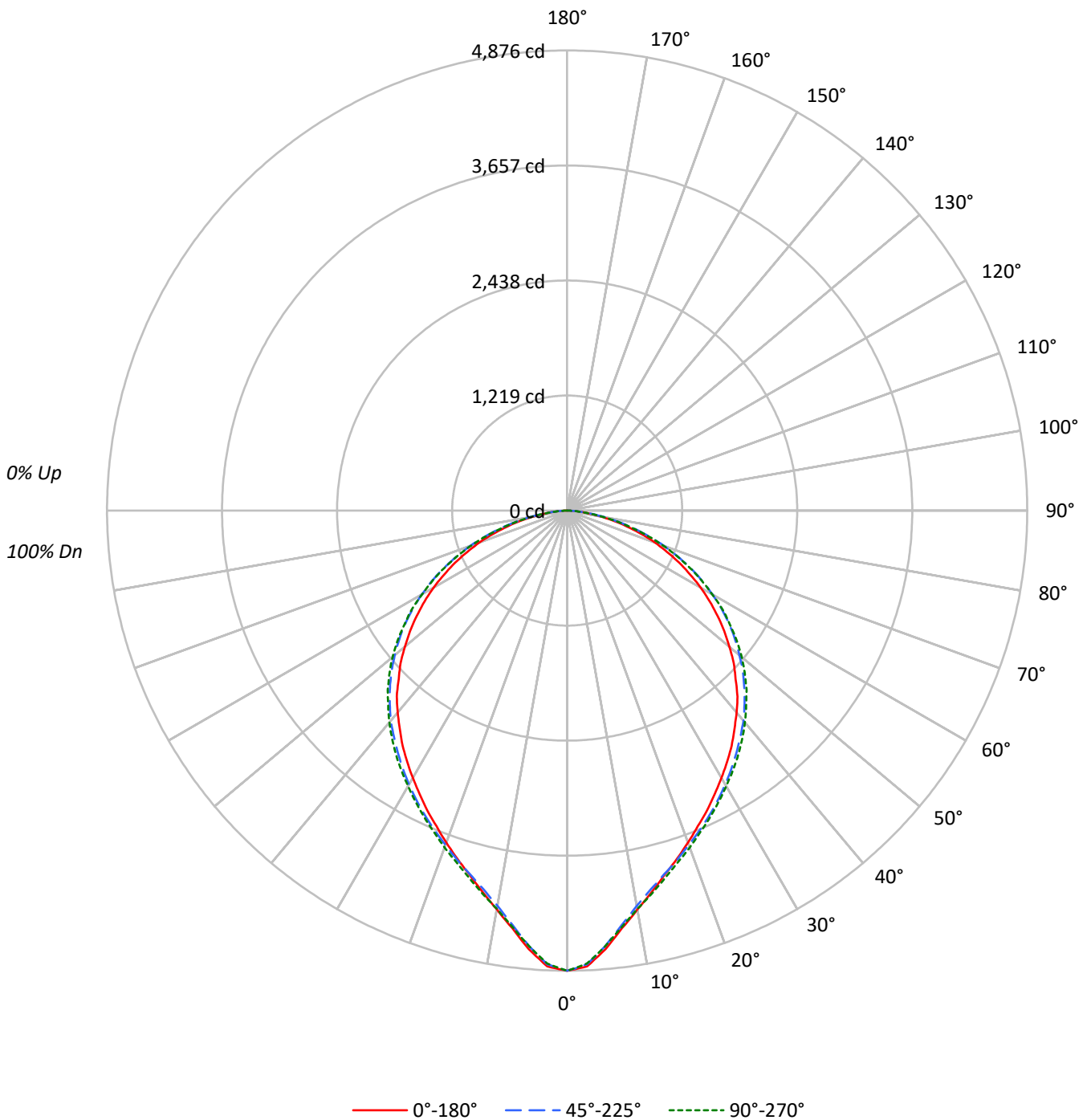
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11326.7 lumens  
Efficiency: N/A  
Efficacy: 87.4 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°	6561	6561	6561
5°	6300	6255	6255
10°	5863	5810	5855
15°	5564	5553	5608
20°	5360	5398	5440
25°	5206	5291	5322
30°	5081	5206	5238
35°	4993	5140	5192
40°	4905	5104	5147
45°	4804	5054	5115
50°	4698	4991	5058
55°	4567	4919	4939
60°	4404	4784	4774
65°	4174	4601	4570
70°	3897	4290	4238
75°	3439	3801	3763
80°	2794	3097	2945
85°	1937	1974	1899



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	430.9	3.8
10°-20°	1128.6	10.0
20°-30°	1641.3	14.5
30°-40°	1953.0	17.2
40°-50°	2028.0	17.9
50°-60°	1837.2	16.2
60°-70°	1386.3	12.2
70°-80°	755.4	6.7
80°-90°	166.0	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
0°-30°	3200.8	28.3
0°-40°	5153.8	45.5
0°-60°	9019.0	79.6
0°-90°	11326.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11326.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4876	4876	4876	4876	4876	
5°	4664	4653	4631	4629	4631	433
15°	3994	3984	3987	4014	4026	1127
25°	3507	3536	3564	3593	3585	1616
35°	3040	3077	3129	3177	3161	1901
45°	2525	2570	2656	2686	2688	1952
55°	1947	1993	2097	2112	2106	1738
65°	1311	1349	1445	1443	1435	1296
75°	662	688	731	736	724	705
85°	126	127	128	127	123	158
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4876.3	4876.3	4876.3	4876.3	4876.3
2.5°	4833.7	4828.8	4812.9	4806.8	4805.6
5°	4664.3	4653.3	4631.4	4629.0	4631.4
7.5°	4462.0	4449.8	4428.0	4436.4	4447.4
10°	4291.4	4261.0	4252.4	4264.6	4285.3
12.5°	4139.1	4114.8	4107.4	4139.1	4153.8
15°	3994.1	3984.4	3986.8	4013.7	4025.8
17.5°	3868.7	3862.6	3878.4	3899.1	3905.2
20°	3743.1	3755.4	3770.0	3791.9	3799.2
22.5°	3620.1	3643.2	3667.6	3696.8	3687.1
25°	3506.8	3536.0	3564.1	3593.3	3584.8
27.5°	3386.1	3420.2	3459.2	3490.9	3478.7
30°	3270.3	3313.0	3350.8	3389.7	3371.5
32.5°	3155.9	3196.1	3241.1	3288.7	3267.9
35°	3040.1	3076.6	3129.0	3176.6	3160.7
37.5°	2912.2	2957.2	3016.9	3058.3	3047.4
40°	2792.7	2834.2	2906.1	2932.9	2930.4
42.5°	2672.1	2706.3	2781.8	2812.2	2807.3
45°	2524.7	2569.8	2656.2	2685.5	2687.9
47.5°	2394.3	2432.1	2524.7	2547.8	2552.7
50°	2244.4	2292.0	2384.6	2412.5	2416.3
52.5°	2096.9	2148.1	2243.2	2262.7	2266.4
55°	1947.1	1993.4	2096.9	2111.6	2105.5
57.5°	1790.0	1846.0	1941.1	1948.3	1954.4
60°	1636.4	1685.1	1777.7	1787.5	1774.1
62.5°	1469.5	1519.4	1614.5	1616.9	1605.9
65°	1311.0	1348.8	1445.1	1442.7	1435.3
67.5°	1145.3	1191.6	1262.3	1264.7	1258.7
70°	990.6	1022.3	1090.5	1091.8	1077.2
72.5°	823.7	857.8	912.6	905.3	901.7
75°	661.6	688.5	731.1	736.0	723.8
77.5°	513.0	532.5	564.2	560.5	547.1
80°	360.6	376.5	399.7	394.8	380.1
82.5°	230.2	240.1	254.7	248.6	242.5
85°	125.5	126.7	127.9	126.7	123.0
87.5°	46.3	47.5	47.5	46.3	42.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)