

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: P489900

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-5HI-27-120-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: P489900  
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-LD4-5HI-27-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

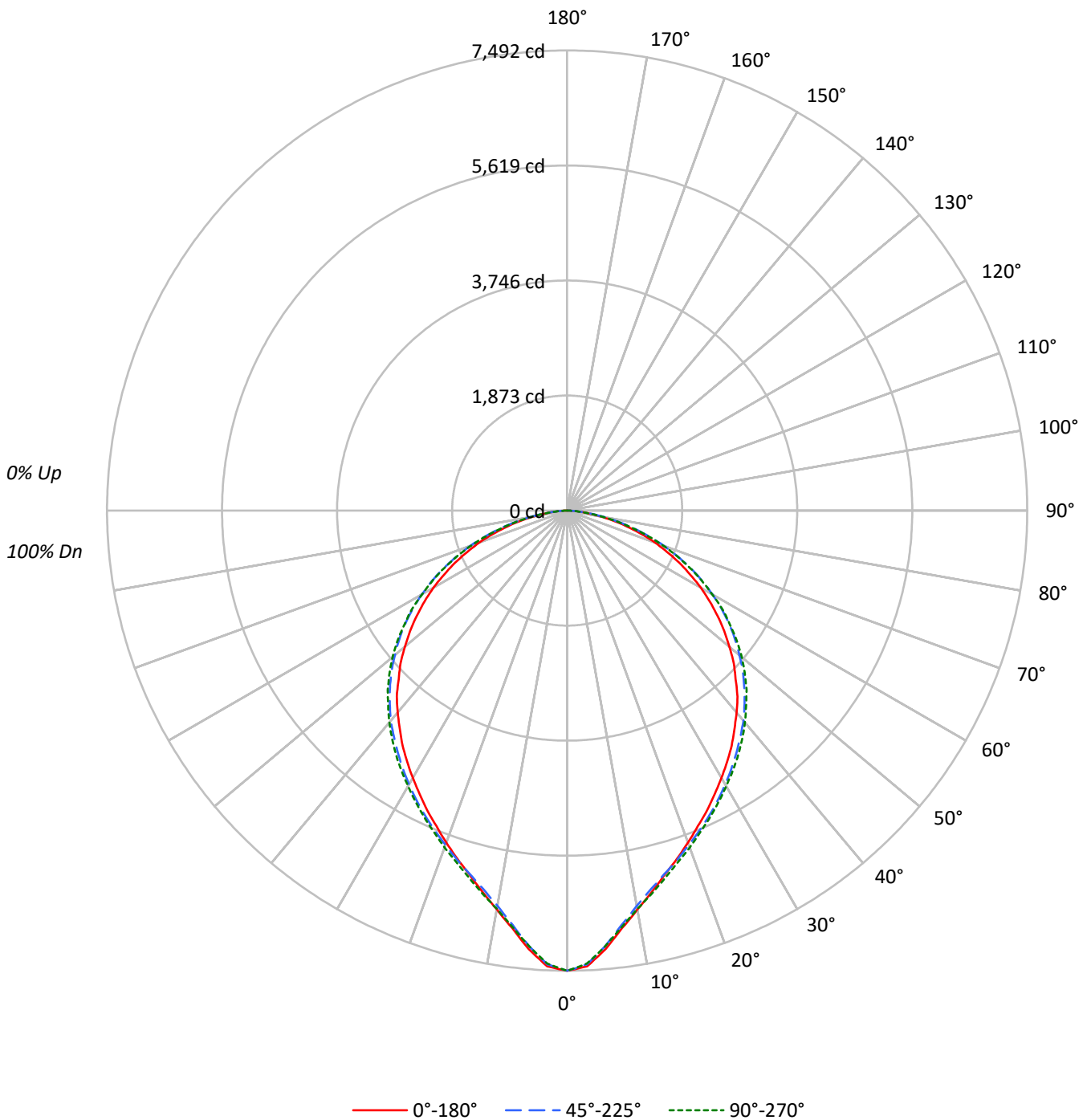
Lumens per Lamp: N/A  
Luminaire Lumens: 17403.3 lumens  
Efficiency: N/A  
Efficacy: 80.6 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	10081	10081	10081
5°	9679	9611	9611
10°	9009	8927	8996
15°	8548	8533	8616
20°	8235	8294	8358
25°	7999	8130	8177
30°	7807	7999	8048
35°	7672	7897	7977
40°	7537	7843	7908
45°	7381	7766	7859
50°	7218	7669	7771
55°	7018	7558	7589
60°	6766	7350	7335
65°	6413	7069	7021
70°	5987	6592	6511
75°	5285	5840	5781
80°	4293	4758	4525
85°	2978	3034	2919



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	662.0	3.8
10°-20°	1734.1	10.0
20°-30°	2521.8	14.5
30°-40°	3000.8	17.2
40°-50°	3115.9	17.9
50°-60°	2822.8	16.2
60°-70°	2130.1	12.2
70°-80°	1160.6	6.7
80°-90°	255.0	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°	4918.0	28.3
0°-40°	7918.8	45.5
0°-60°	13857.5	79.6
0°-90°	17403.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17403.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7492	7492	7492	7492	7492	
5°	7167	7150	7116	7112	7116	665
15°	6137	6122	6126	6167	6186	1732
25°	5388	5433	5476	5521	5508	2483
35°	4671	4727	4808	4881	4856	2920
45°	3879	3948	4081	4126	4130	2998
55°	2992	3063	3222	3244	3235	2671
65°	2014	2072	2220	2217	2205	1991
75°	1017	1058	1123	1131	1112	1083
85°	193	195	196	195	189	243
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7492.4	7492.4	7492.4	7492.4	7492.4
2.5°	7426.8	7419.4	7395.0	7385.6	7383.7
5°	7166.6	7149.8	7116.0	7112.4	7116.0
7.5°	6855.8	6837.1	6803.5	6816.5	6833.4
10°	6593.7	6547.0	6533.7	6552.5	6584.4
12.5°	6359.6	6322.3	6311.0	6359.6	6382.2
15°	6136.9	6121.9	6125.7	6166.9	6185.6
17.5°	5944.1	5934.8	5959.1	5990.9	6000.3
20°	5751.3	5770.0	5792.5	5826.2	5837.4
22.5°	5562.2	5597.7	5635.3	5680.1	5665.2
25°	5388.1	5433.0	5476.1	5521.0	5507.9
27.5°	5202.7	5255.1	5315.1	5363.8	5345.0
30°	5024.8	5090.4	5148.4	5208.3	5180.3
32.5°	4848.9	4910.7	4979.9	5053.0	5021.1
35°	4671.0	4727.2	4807.7	4880.8	4856.4
37.5°	4474.5	4543.7	4635.4	4699.0	4682.3
40°	4291.0	4354.7	4465.1	4506.3	4502.5
42.5°	4105.6	4158.1	4274.1	4320.9	4313.4
45°	3879.2	3948.4	4081.3	4126.3	4130.0
47.5°	3678.8	3736.9	3879.2	3914.6	3922.1
50°	3448.5	3521.6	3663.8	3706.8	3712.5
52.5°	3221.9	3300.5	3446.6	3476.5	3482.3
55°	2991.6	3062.8	3221.9	3244.5	3235.1
57.5°	2750.2	2836.3	2982.4	2993.6	3002.9
60°	2514.2	2589.2	2731.5	2746.4	2725.9
62.5°	2257.9	2334.6	2480.7	2484.3	2467.4
65°	2014.4	2072.5	2220.3	2216.6	2205.3
67.5°	1759.8	1830.9	1939.6	1943.2	1934.0
70°	1522.0	1570.7	1675.6	1677.5	1655.0
72.5°	1265.6	1318.0	1402.2	1391.0	1385.5
75°	1016.6	1057.8	1123.4	1130.8	1112.1
77.5°	788.2	818.1	866.8	861.3	840.6
80°	554.1	578.5	614.1	606.6	584.0
82.5°	353.8	368.9	391.3	381.9	372.5
85°	192.9	194.6	196.5	194.6	189.1
87.5°	71.1	73.0	73.0	71.1	65.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)