

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: P489368

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-5HI-50-120-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: P489368  
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-24-2-INS-P12125-LD4-5HI-50-120-EDD-90  
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

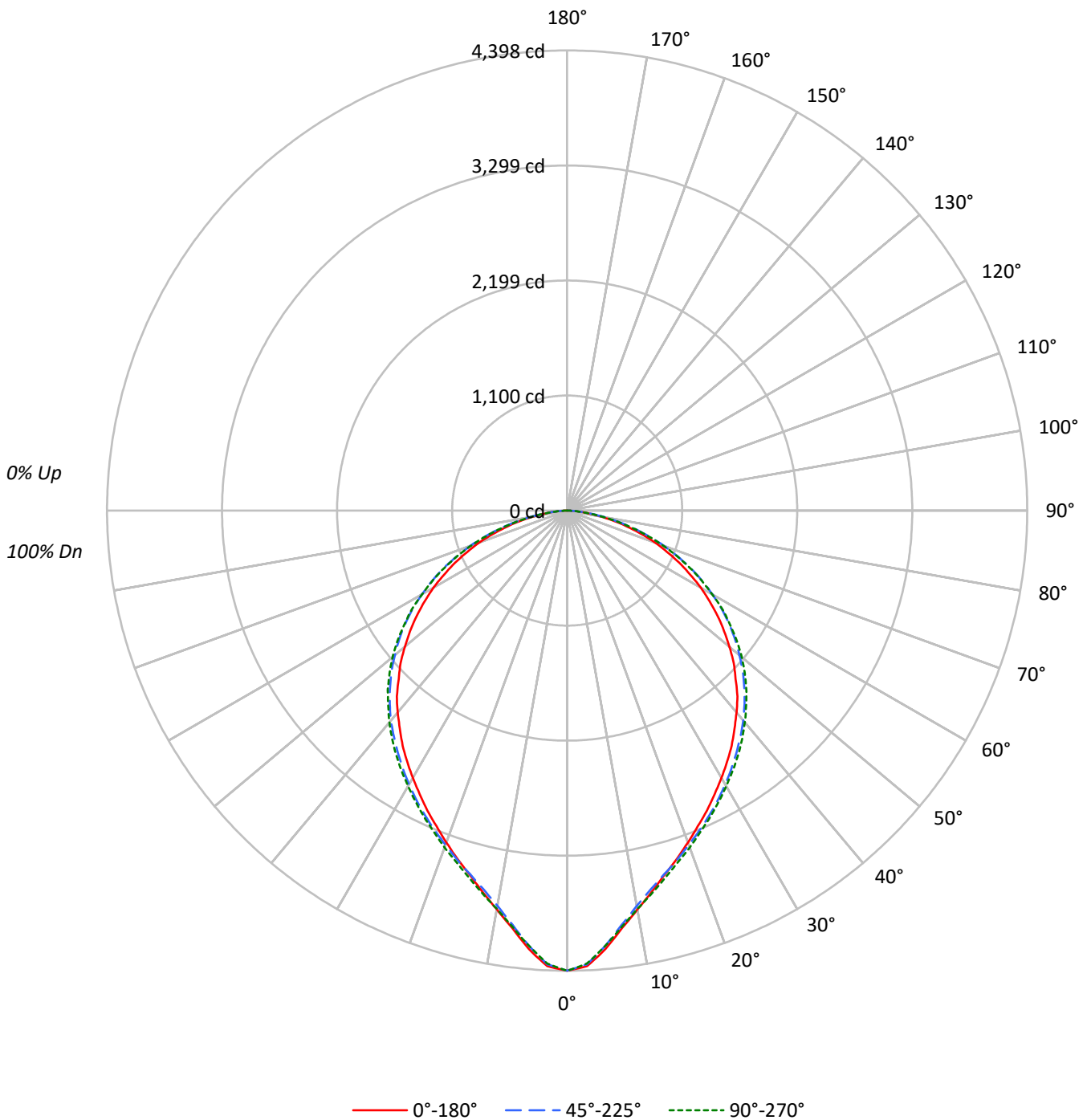
Lumens per Lamp: N/A  
Luminaire Lumens: 10214.6 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 108  
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°	11834	11834	11834
5°	11363	11282	11282
10°	10575	10479	10560
15°	10035	10016	10114
20°	9667	9736	9811
25°	9390	9543	9599
30°	9164	9390	9448
35°	9006	9270	9364
40°	8847	9206	9283
45°	8665	9116	9225
50°	8474	9002	9122
55°	8238	8872	8908
60°	7942	8628	8611
65°	7528	8298	8242
70°	7028	7737	7643
75°	6204	6855	6786
80°	5040	5585	5312
85°	3495	3563	3427



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	388.6	3.8
10°-20°	1017.8	10.0
20°-30°	1480.1	14.5
30°-40°	1761.3	17.2
40°-50°	1828.8	17.9
50°-60°	1656.8	16.2
60°-70°	1250.2	12.2
70°-80°	681.2	6.7
80°-90°	149.7	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°	2886.5	28.3
0°-40°	4647.8	45.5
0°-60°	8133.5	79.6
0°-90°	10214.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10214.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4398	4398	4398	4398	4398	
5°	4206	4196	4177	4174	4177	390
15°	3602	3593	3595	3620	3630	1017
25°	3162	3189	3214	3240	3233	1457
35°	2742	2775	2822	2865	2850	1714
45°	2277	2317	2395	2422	2424	1760
55°	1756	1798	1891	1904	1899	1568
65°	1182	1216	1303	1301	1294	1169
75°	597	621	659	664	653	636
85°	113	114	115	114	111	143
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4397.5	4397.5	4397.5	4397.5	4397.5
2.5°	4359.1	4354.7	4340.4	4334.9	4333.8
5°	4206.4	4196.4	4176.6	4174.5	4176.6
7.5°	4023.9	4012.9	3993.2	4000.9	4010.8
10°	3870.1	3842.6	3834.9	3845.9	3864.6
12.5°	3732.7	3710.7	3704.1	3732.7	3746.0
15°	3601.9	3593.2	3595.4	3619.6	3630.5
17.5°	3488.8	3483.3	3497.6	3516.3	3521.8
20°	3375.6	3386.6	3399.8	3419.6	3426.1
22.5°	3264.7	3285.5	3307.5	3333.9	3325.1
25°	3162.5	3188.8	3214.1	3240.5	3232.8
27.5°	3053.7	3084.4	3119.6	3148.2	3137.2
30°	2949.2	2987.7	3021.8	3056.9	3040.5
32.5°	2846.0	2882.3	2922.9	2965.8	2947.1
35°	2741.6	2774.6	2821.8	2864.7	2850.4
37.5°	2626.2	2666.9	2720.7	2758.0	2748.2
40°	2518.5	2555.9	2620.7	2644.9	2642.7
42.5°	2409.7	2440.5	2508.6	2536.1	2531.7
45°	2276.8	2317.4	2395.4	2421.9	2424.0
47.5°	2159.2	2193.3	2276.8	2297.6	2302.0
50°	2024.1	2066.9	2150.4	2175.7	2179.0
52.5°	1891.1	1937.2	2022.9	2040.5	2043.9
55°	1755.9	1797.7	1891.1	1904.3	1898.8
57.5°	1614.2	1664.7	1750.5	1757.0	1762.5
60°	1475.7	1519.7	1603.2	1612.0	1599.9
62.5°	1325.2	1370.2	1456.0	1458.1	1448.2
65°	1182.3	1216.4	1303.2	1301.0	1294.4
67.5°	1032.9	1074.6	1138.4	1140.6	1135.1
70°	893.3	921.9	983.4	984.6	971.4
72.5°	742.8	773.6	823.0	816.4	813.2
75°	596.7	620.9	659.3	663.7	652.7
77.5°	462.6	480.2	508.8	505.5	493.4
80°	325.2	339.5	360.4	356.1	342.8
82.5°	207.6	216.5	229.7	224.2	218.7
85°	113.2	114.2	115.4	114.2	111.0
87.5°	41.8	42.9	42.9	41.8	38.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)