

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: P489364

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-5HI-35-120-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: P489364  
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-35-120-EDD-90  
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

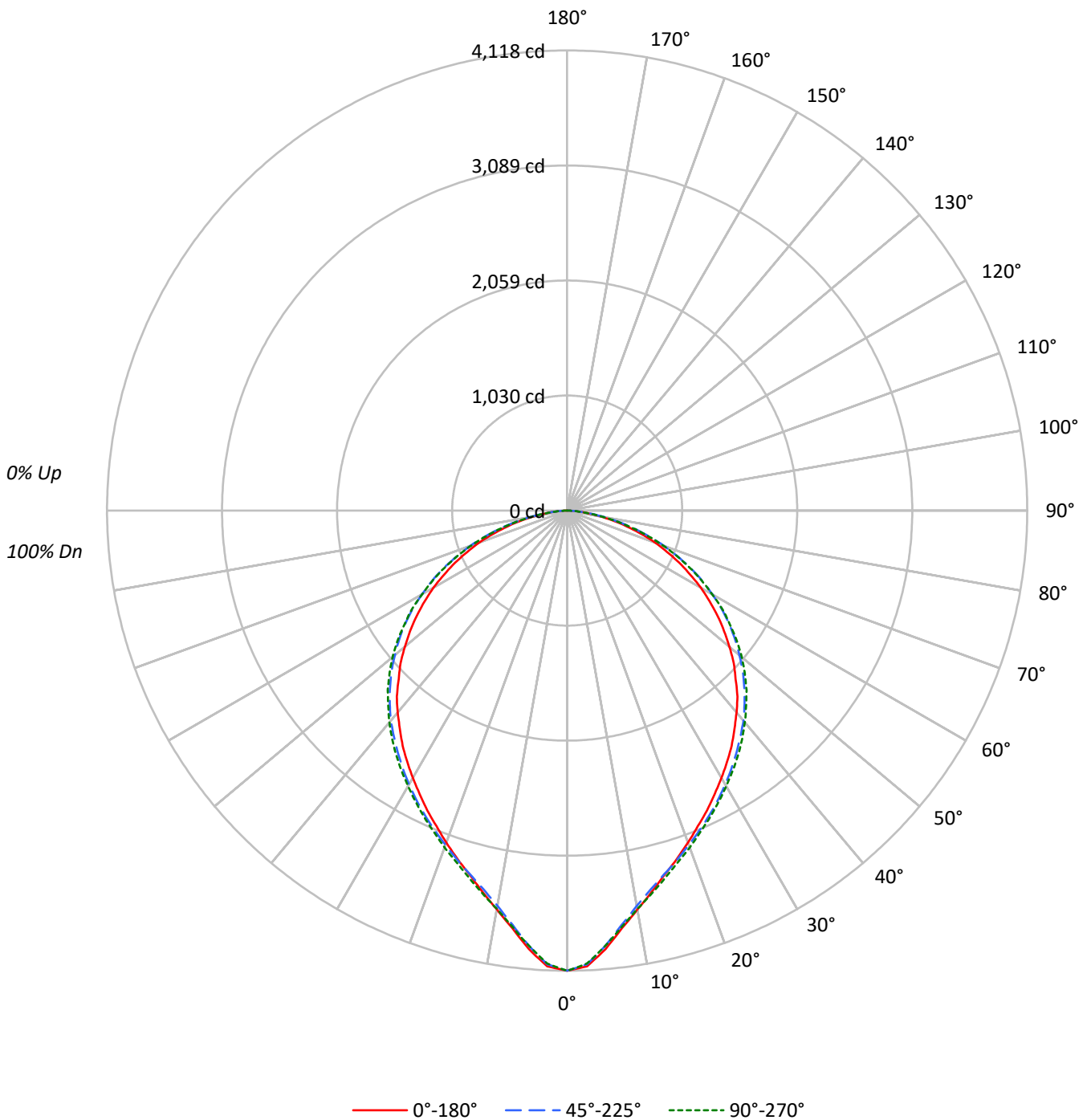
Lumens per Lamp: N/A  
Luminaire Lumens: 9564.6 lumens  
Efficiency: N/A  
Efficacy: 88.6 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59					59			
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30					30			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27					27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

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

	0°	45°	90°
0°	11081	11081	11081
5°	10639	10564	10564
10°	9902	9812	9888
15°	9396	9379	9471
20°	9052	9117	9187
25°	8792	8936	8988
30°	8581	8792	8846
35°	8433	8680	8768
40°	8284	8620	8692
45°	8113	8536	8638
50°	7935	8430	8542
55°	7714	8307	8342
60°	7437	8079	8063
65°	7049	7769	7717
70°	6581	7246	7157
75°	5809	6419	6355
80°	4719	5230	4974
85°	3273	3335	3208



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	363.9	3.8
10°-20°	953.1	10.0
20°-30°	1385.9	14.5
30°-40°	1649.2	17.2
40°-50°	1712.5	17.9
50°-60°	1551.4	16.2
60°-70°	1170.7	12.2
70°-80°	637.8	6.7
80°-90°	140.2	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°	2702.8	28.3
0°-40°	4352.1	45.5
0°-60°	7615.9	79.6
0°-90°	9564.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9564.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4118	4118	4118	4118	4118	
5°	3939	3929	3911	3909	3911	366
15°	3373	3364	3367	3389	3400	952
25°	2961	2986	3010	3034	3027	1365
35°	2567	2598	2642	2682	2669	1605
45°	2132	2170	2243	2268	2270	1648
55°	1644	1683	1771	1783	1778	1468
65°	1107	1139	1220	1218	1212	1094
75°	559	581	617	622	611	595
85°	106	107	108	107	104	134
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4117.7	4117.7	4117.7	4117.7	4117.7
2.5°	4081.7	4077.6	4064.2	4059.0	4058.0
5°	3938.7	3929.4	3910.9	3908.9	3910.9
7.5°	3767.9	3757.6	3739.1	3746.3	3755.5
10°	3623.8	3598.1	3590.9	3601.2	3618.7
12.5°	3495.2	3474.6	3468.4	3495.2	3507.6
15°	3372.7	3364.5	3366.6	3389.3	3399.5
17.5°	3266.8	3261.7	3275.0	3292.5	3297.7
20°	3160.8	3171.1	3183.5	3202.0	3208.1
22.5°	3056.9	3076.4	3097.1	3121.7	3113.5
25°	2961.2	2985.9	3009.6	3034.3	3027.1
27.5°	2859.3	2888.1	2921.1	2947.8	2937.5
30°	2761.6	2797.6	2829.5	2862.4	2847.0
32.5°	2664.9	2698.8	2736.9	2777.0	2759.5
35°	2567.1	2598.0	2642.3	2682.4	2669.0
37.5°	2459.1	2497.2	2547.5	2582.5	2573.3
40°	2358.3	2393.3	2454.0	2476.6	2474.5
42.5°	2256.4	2285.2	2349.0	2374.7	2370.6
45°	2131.9	2170.0	2243.0	2267.8	2269.8
47.5°	2021.8	2053.7	2131.9	2151.4	2155.5
50°	1895.3	1935.4	2013.6	2037.2	2040.4
52.5°	1770.7	1813.9	1894.2	1910.7	1913.8
55°	1644.2	1683.3	1770.7	1783.1	1778.0
57.5°	1511.5	1558.8	1639.1	1645.2	1650.4
60°	1381.8	1423.0	1501.2	1509.4	1498.1
62.5°	1240.9	1283.0	1363.3	1365.3	1356.1
65°	1107.1	1139.0	1220.2	1218.2	1212.0
67.5°	967.1	1006.2	1066.0	1068.0	1062.9
70°	836.5	863.2	920.9	921.9	909.6
72.5°	695.6	724.3	770.6	764.5	761.4
75°	558.7	581.3	617.4	621.5	611.2
77.5°	433.2	449.6	476.4	473.3	462.0
80°	304.5	317.9	337.5	333.4	321.0
82.5°	194.4	202.7	215.1	209.9	204.7
85°	106.0	107.0	108.0	107.0	103.9
87.5°	39.1	40.1	40.1	39.1	36.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)