

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: P489853

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-3STD-27-120-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: P489853  
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-LD4-3STD-27-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

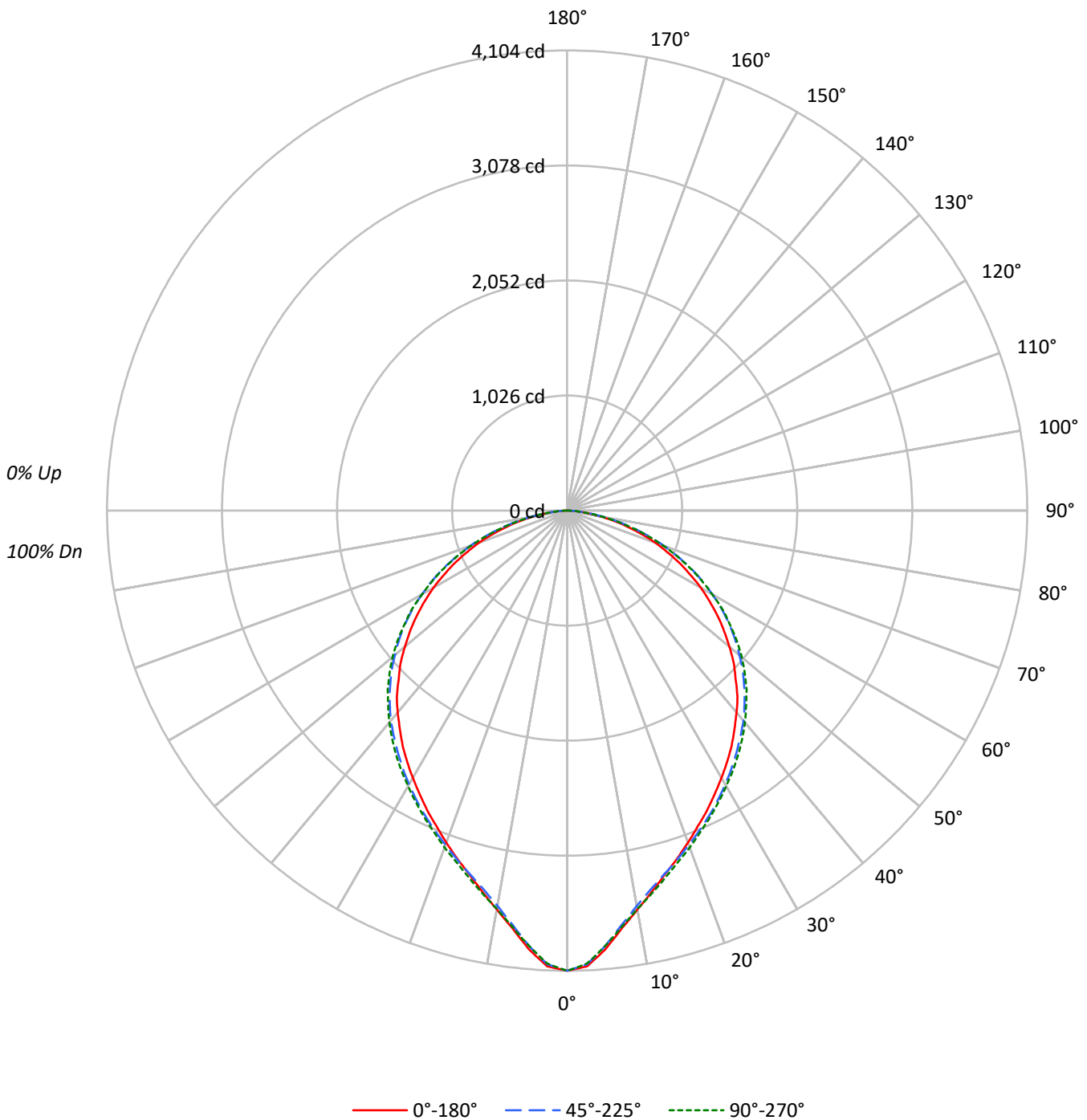
Lumens per Lamp: N/A  
Luminaire Lumens: 9532.4 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 99.9  
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°	5522	5522	5522
5°	5302	5264	5264
10°	4934	4890	4927
15°	4682	4674	4719
20°	4511	4543	4578
25°	4381	4453	4479
30°	4276	4381	4408
35°	4202	4325	4369
40°	4128	4296	4332
45°	4043	4254	4304
50°	3954	4201	4257
55°	3844	4140	4157
60°	3706	4026	4018
65°	3513	3872	3846
70°	3280	3611	3566
75°	2895	3199	3166
80°	2352	2607	2479
85°	1630	1661	1599



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	362.6	3.8
10°-20°	949.9	10.0
20°-30°	1381.3	14.5
30°-40°	1643.7	17.2
40°-50°	1706.7	17.9
50°-60°	1546.2	16.2
60°-70°	1166.7	12.2
70°-80°	635.7	6.7
80°-90°	139.7	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°	2693.7	28.3
0°-40°	4337.4	45.5
0°-60°	7590.3	79.6
0°-90°	9532.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9532.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4104	4104	4104	4104	4104	
5°	3925	3916	3898	3896	3898	364
15°	3361	3353	3355	3378	3388	949
25°	2951	2976	3000	3024	3017	1360
35°	2558	2589	2633	2673	2660	1600
45°	2125	2163	2236	2260	2262	1642
55°	1639	1678	1765	1777	1772	1463
65°	1103	1135	1216	1214	1208	1091
75°	557	579	615	619	609	593
85°	106	107	108	107	104	133
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4103.8	4103.8	4103.8	4103.8	4103.8
2.5°	4067.9	4063.8	4050.5	4045.4	4044.3
5°	3925.4	3916.2	3897.7	3895.7	3897.7
7.5°	3755.2	3744.9	3726.5	3733.7	3742.9
10°	3611.6	3586.0	3578.8	3589.0	3606.5
12.5°	3483.4	3462.9	3456.7	3483.4	3495.8
15°	3361.4	3353.2	3355.3	3377.8	3388.0
17.5°	3255.8	3250.7	3264.0	3281.4	3286.6
20°	3150.2	3160.5	3172.7	3191.2	3197.3
22.5°	3046.6	3066.1	3086.6	3111.2	3103.0
25°	2951.3	2975.8	2999.5	3024.0	3016.9
27.5°	2849.7	2878.4	2911.2	2937.9	2927.6
30°	2752.3	2788.2	2820.0	2852.8	2837.4
32.5°	2655.9	2689.8	2727.7	2767.7	2750.3
35°	2558.5	2589.3	2633.4	2673.4	2660.0
37.5°	2450.8	2488.8	2539.0	2573.8	2564.7
40°	2350.3	2385.2	2445.7	2468.3	2466.2
42.5°	2248.8	2277.6	2341.1	2366.7	2362.6
45°	2124.8	2162.7	2235.5	2260.1	2262.1
47.5°	2015.0	2046.8	2124.8	2144.2	2148.3
50°	1888.9	1928.9	2006.8	2030.4	2033.5
52.5°	1764.8	1807.8	1887.8	1904.2	1907.4
55°	1638.6	1677.6	1764.8	1777.1	1772.0
57.5°	1506.4	1553.6	1633.6	1639.7	1644.8
60°	1377.1	1418.2	1496.1	1504.3	1493.1
62.5°	1236.7	1278.7	1358.7	1360.7	1351.5
65°	1103.3	1135.2	1216.1	1214.1	1207.9
67.5°	963.9	1002.8	1062.4	1064.4	1059.3
70°	833.7	860.3	917.8	918.8	906.5
72.5°	693.2	721.9	768.0	761.9	758.9
75°	556.8	579.4	615.3	619.4	609.1
77.5°	431.7	448.1	474.8	471.7	460.4
80°	303.5	316.8	336.4	332.3	319.9
82.5°	193.8	202.1	214.3	209.2	204.1
85°	105.6	106.6	107.6	106.6	103.6
87.5°	39.0	40.0	40.0	39.0	35.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)