

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: P489841

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-3LO-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: P489841  
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-LD4-3LO-27-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

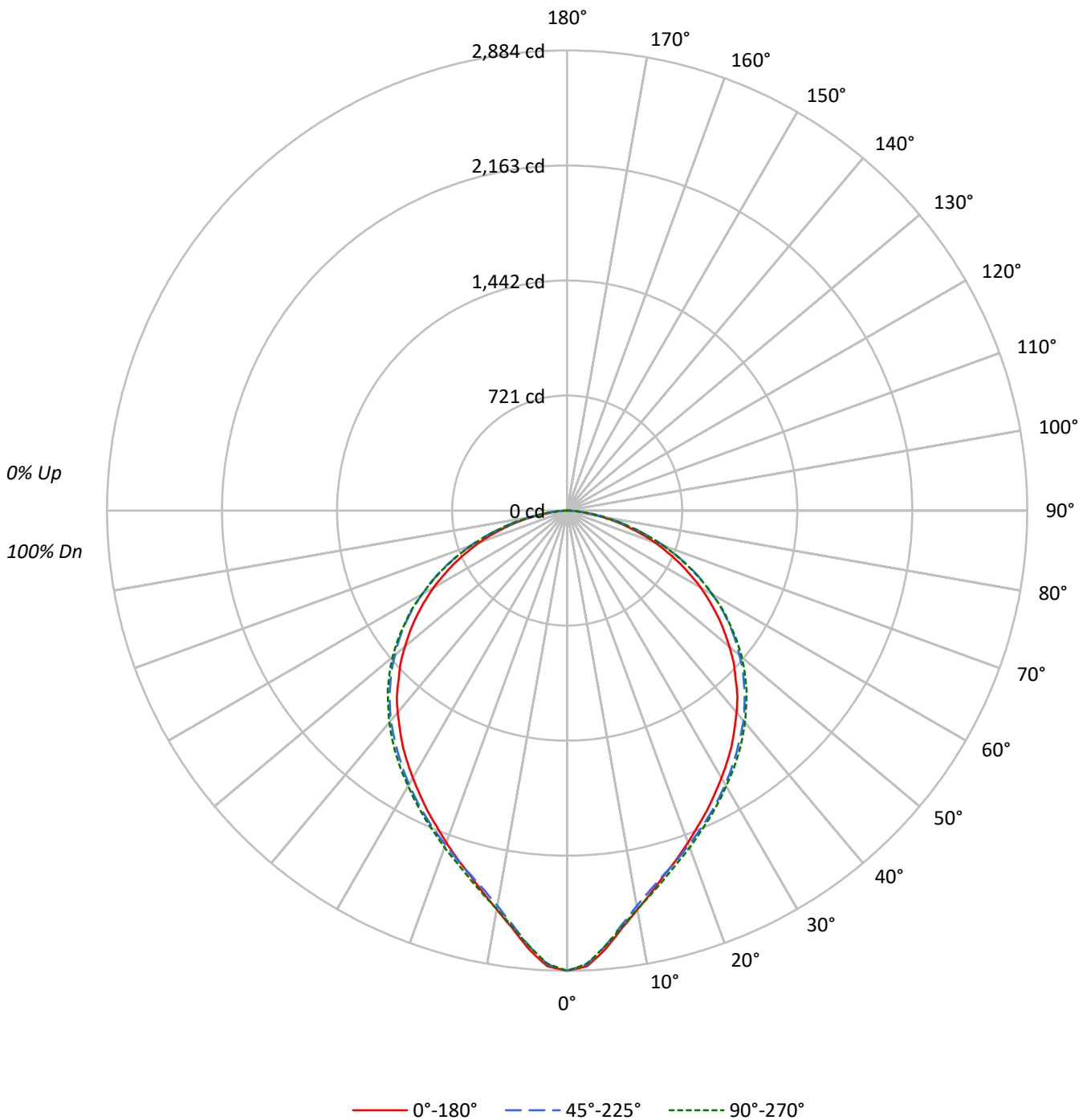
Lumens per Lamp: N/A  
Luminaire Lumens: 6698.4 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 70.2  
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°	3880	3880	3880
5°	3726	3699	3699
10°	3467	3436	3462
15°	3290	3284	3316
20°	3170	3192	3217
25°	3079	3129	3147
30°	3005	3079	3098
35°	2953	3040	3070
40°	2901	3019	3044
45°	2841	2989	3025
50°	2778	2952	2991
55°	2701	2909	2921
60°	2604	2829	2823
65°	2468	2721	2702
70°	2305	2537	2506
75°	2034	2248	2225
80°	1653	1832	1742
85°	1145	1167	1124



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.8	3.8
10°-20°	667.5	10.0
20°-30°	970.6	14.5
30°-40°	1155.0	17.2
40°-50°	1199.3	17.9
50°-60°	1086.5	16.2
60°-70°	819.9	12.2
70°-80°	446.7	6.7
80°-90°	98.2	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°	1892.9	28.3
0°-40°	3047.9	45.5
0°-60°	5333.7	79.6
0°-90°	6698.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6698.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2884	2884	2884	2884	2884	
5°	2758	2752	2739	2738	2739	256
15°	2362	2356	2358	2374	2381	667
25°	2074	2091	2108	2125	2120	956
35°	1798	1820	1850	1879	1869	1124
45°	1493	1520	1571	1588	1590	1154
55°	1152	1179	1240	1249	1245	1028
65°	775	798	855	853	849	766
75°	391	407	432	435	428	417
85°	74	75	76	75	73	94
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2883.8	2883.8	2883.8	2883.8	2883.8
2.5°	2858.5	2855.7	2846.3	2842.7	2841.9
5°	2758.4	2751.9	2738.9	2737.5	2738.9
7.5°	2638.8	2631.5	2618.6	2623.6	2630.1
10°	2537.9	2519.9	2514.8	2522.0	2534.3
12.5°	2447.8	2433.4	2429.0	2447.8	2456.5
15°	2362.0	2356.3	2357.7	2373.6	2380.8
17.5°	2287.9	2284.2	2293.6	2305.9	2309.5
20°	2213.6	2220.8	2229.5	2242.5	2246.8
22.5°	2140.9	2154.5	2169.0	2186.2	2180.5
25°	2073.8	2091.1	2107.7	2125.0	2120.0
27.5°	2002.5	2022.6	2045.7	2064.5	2057.2
30°	1934.0	1959.2	1981.6	2004.6	1993.8
32.5°	1866.3	1890.1	1916.7	1944.8	1932.6
35°	1797.8	1819.5	1850.5	1878.6	1869.2
37.5°	1722.2	1748.8	1784.1	1808.6	1802.2
40°	1651.6	1676.1	1718.6	1734.5	1733.0
42.5°	1580.2	1600.4	1645.1	1663.1	1660.2
45°	1493.1	1519.7	1570.8	1588.2	1589.6
47.5°	1415.9	1438.3	1493.1	1506.7	1509.6
50°	1327.3	1355.4	1410.2	1426.7	1428.9
52.5°	1240.1	1270.3	1326.6	1338.1	1340.3
55°	1151.5	1178.8	1240.1	1248.8	1245.2
57.5°	1058.5	1091.7	1147.9	1152.2	1155.8
60°	967.7	996.6	1051.3	1057.1	1049.2
62.5°	869.0	898.6	954.8	956.2	949.7
65°	775.3	797.7	854.6	853.2	848.8
67.5°	677.3	704.7	746.5	747.9	744.4
70°	585.8	604.5	644.9	645.6	637.0
72.5°	487.1	507.3	539.7	535.4	533.3
75°	391.3	407.1	432.4	435.3	428.0
77.5°	303.4	314.9	333.6	331.5	323.5
80°	213.3	222.6	236.4	233.5	224.8
82.5°	136.2	142.0	150.6	147.0	143.4
85°	74.2	74.9	75.6	74.9	72.8
87.5°	27.4	28.1	28.1	27.4	25.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)