

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: P489823

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-2STD-40-120-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: P489823  
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-LD4-2STD-40-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

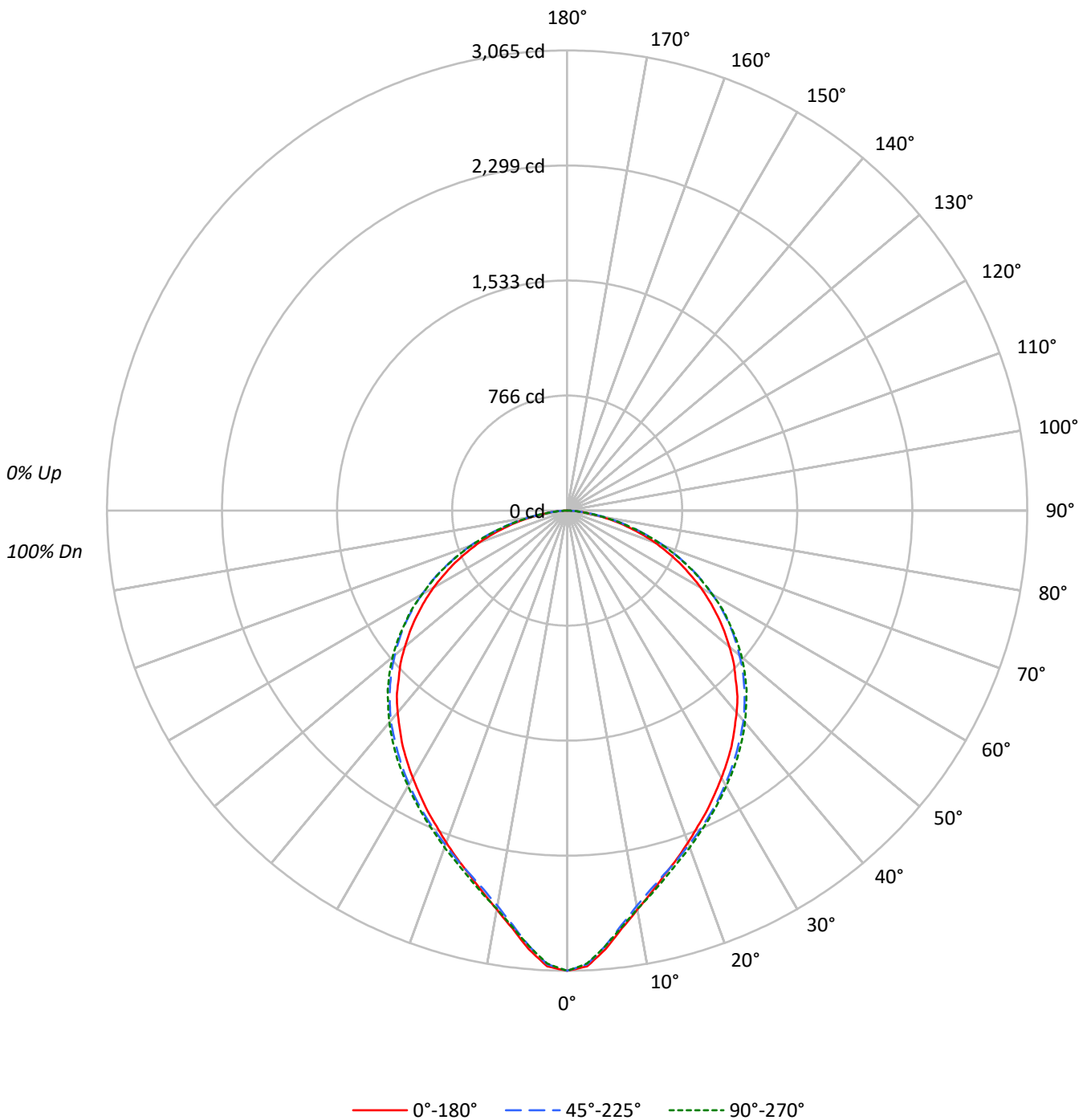
Lumens per Lamp: N/A  
Luminaire Lumens: 7119.7 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 66.6  
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°	4124	4124	4124
5°	3960	3932	3932
10°	3685	3652	3680
15°	3497	3491	3525
20°	3369	3393	3419
25°	3272	3326	3345
30°	3194	3272	3293
35°	3139	3231	3263
40°	3083	3208	3235
45°	3020	3177	3215
50°	2953	3138	3179
55°	2871	3092	3105
60°	2768	3007	3001
65°	2624	2892	2872
70°	2450	2697	2664
75°	2162	2389	2365
80°	1757	1946	1851
85°	1218	1241	1193



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	270.8	3.8
10°-20°	709.4	10.0
20°-30°	1031.7	14.5
30°-40°	1227.6	17.2
40°-50°	1274.7	17.9
50°-60°	1154.8	16.2
60°-70°	871.4	12.2
70°-80°	474.8	6.7
80°-90°	104.3	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°	2011.9	28.3
0°-40°	3239.6	45.5
0°-60°	5669.1	79.6
0°-90°	7119.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7119.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3065	3065	3065	3065	3065	
5°	2932	2925	2911	2910	2911	272
15°	2511	2504	2506	2523	2530	709
25°	2204	2223	2240	2259	2253	1016
35°	1911	1934	1967	1997	1987	1195
45°	1587	1615	1670	1688	1690	1227
55°	1224	1253	1318	1327	1324	1093
65°	824	848	908	907	902	815
75°	416	433	460	463	455	443
85°	79	80	80	80	77	100
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3065.1	3065.1	3065.1	3065.1	3065.1
2.5°	3038.3	3035.3	3025.3	3021.5	3020.7
5°	2931.9	2925.0	2911.2	2909.7	2911.2
7.5°	2804.7	2797.0	2783.3	2788.6	2795.5
10°	2697.5	2678.4	2673.0	2680.6	2693.7
12.5°	2601.7	2586.4	2581.8	2601.7	2611.0
15°	2510.6	2504.5	2506.0	2522.9	2530.5
17.5°	2431.8	2427.9	2437.9	2450.9	2454.7
20°	2352.8	2360.5	2369.7	2383.5	2388.1
22.5°	2275.5	2290.0	2305.4	2323.7	2317.6
25°	2204.3	2222.6	2240.3	2258.6	2253.3
27.5°	2128.4	2149.9	2174.4	2194.3	2186.6
30°	2055.6	2082.5	2106.2	2130.7	2119.3
32.5°	1983.7	2009.0	2037.3	2067.2	2054.1
35°	1910.9	1933.9	1966.8	1996.7	1986.8
37.5°	1830.5	1858.8	1896.3	1922.4	1915.5
40°	1755.5	1781.5	1826.7	1843.5	1842.0
42.5°	1679.6	1701.1	1748.6	1767.7	1764.6
45°	1587.0	1615.3	1669.6	1688.1	1689.6
47.5°	1505.0	1528.8	1587.0	1601.5	1604.5
50°	1410.8	1440.7	1498.9	1516.5	1518.8
52.5°	1318.1	1350.2	1410.0	1422.3	1424.6
55°	1223.9	1253.0	1318.1	1327.3	1323.5
57.5°	1125.1	1160.3	1220.1	1224.7	1228.5
60°	1028.6	1059.2	1117.4	1123.6	1115.2
62.5°	923.7	955.1	1014.8	1016.3	1009.4
65°	824.1	847.8	908.3	906.8	902.2
67.5°	719.9	749.0	793.5	795.0	791.2
70°	622.7	642.6	685.5	686.3	677.1
72.5°	517.8	539.2	573.6	569.1	566.8
75°	415.9	432.7	459.6	462.6	454.9
77.5°	322.5	334.7	354.6	352.3	343.9
80°	226.7	236.7	251.2	248.2	238.9
82.5°	144.7	150.9	160.1	156.2	152.4
85°	78.9	79.6	80.4	79.6	77.3
87.5°	29.1	29.9	29.9	29.1	26.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)