

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: METALUX

Report Number: P412565

Luminaire Tested: **24PD-70-PB1-L930**

Issue Date: 9/15/2020



**Test Information**

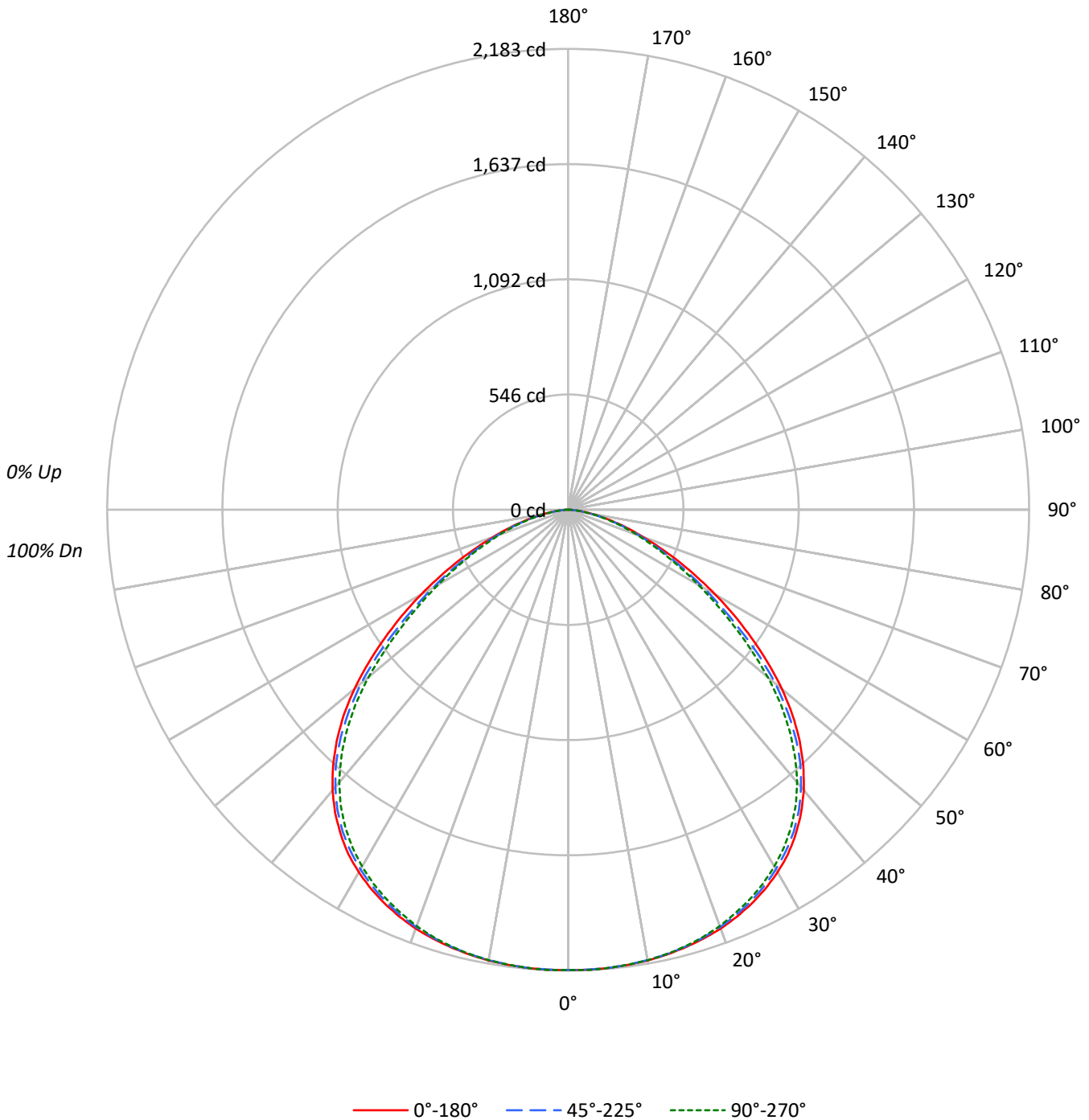
Test Method: LM-79-08  
Report Number: P412565  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-70-PB1-L930  
Description: 7000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5801.0 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.32 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 52.3  
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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	70	59	51	45	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	39	33	29	27

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

	0°	45°	90°
0°	2933	2933	2933
5°	2943	2943	2943
10°	2963	2960	2960
15°	2989	2985	2983
20°	3023	3013	3005
25°	3055	3039	3022
30°	3081	3056	3033
35°	3085	3058	3020
40°	3049	3013	2962
45°	2950	2896	2821
50°	2766	2680	2582
55°	2486	2338	2242
60°	2164	1992	1916
65°	1821	1685	1612
70°	1484	1409	1352
75°	1189	1147	1099
80°	914	841	819
85°	571	553	553



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	207.6	3.6
10°-20°	605.8	10.4
20°-30°	943.8	16.3
30°-40°	1161.1	20.0
40°-50°	1166.2	20.1
50°-60°	898.9	15.5
60°-70°	533.6	9.2
70°-80°	237.6	4.1
80°-90°	46.4	0.8
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°	1757.2	30.3
0°-40°	2918.3	50.3
0°-60°	4983.4	85.9
0°-90°	5801.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5801.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2180	2180	2180	2180	2180	
5°	2179	2180	2179	2177	2179	208
15°	2146	2146	2143	2140	2141	607
25°	2058	2057	2047	2038	2036	949
35°	1878	1875	1862	1846	1839	1173
45°	1550	1546	1522	1496	1483	1190
55°	1060	1040	997	967	956	948
65°	572	547	529	509	506	572
75°	229	224	221	213	212	248
85°	37	35	36	34	36	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2180.1	2180.1	2180.1	2180.1	2180.1
2.5°	2181.2	2180.7	2180.7	2178.4	2183.0
5°	2178.9	2179.5	2178.9	2176.6	2178.9
7.5°	2174.3	2174.9	2173.7	2171.4	2173.7
10°	2168.5	2168.5	2166.2	2165.1	2166.8
12.5°	2158.7	2158.7	2156.4	2154.7	2156.4
15°	2146.0	2146.0	2143.1	2139.6	2141.4
17.5°	2130.4	2130.4	2125.8	2121.2	2122.3
20°	2111.3	2110.8	2104.4	2098.0	2098.6
22.5°	2087.1	2086.5	2078.4	2070.9	2068.6
25°	2057.6	2057.0	2047.2	2037.9	2035.6
27.5°	2023.5	2021.2	2010.2	1999.8	1997.5
30°	1983.1	1981.3	1966.9	1956.5	1951.9
32.5°	1936.3	1931.6	1918.3	1905.6	1899.3
35°	1877.9	1875.0	1861.7	1846.1	1838.6
37.5°	1812.0	1809.1	1794.7	1777.4	1768.7
40°	1735.8	1733.4	1715.5	1697.6	1686.6
42.5°	1647.9	1646.2	1627.1	1602.3	1590.7
45°	1550.3	1546.2	1522.0	1496.5	1482.7
47.5°	1441.6	1434.7	1405.2	1381.0	1366.0
50°	1321.5	1312.2	1280.4	1249.2	1233.6
52.5°	1191.5	1175.3	1142.3	1106.5	1091.5
55°	1059.7	1039.5	996.7	966.7	955.7
57.5°	930.9	901.4	860.9	839.6	828.6
60°	804.3	772.0	740.2	719.4	711.9
62.5°	683.6	656.4	629.2	608.4	603.8
65°	572.0	547.2	529.3	509.1	506.2
67.5°	468.0	456.5	440.3	423.0	420.6
70°	377.3	372.7	358.2	347.8	343.8
72.5°	301.0	296.4	286.0	278.5	277.4
75°	228.8	224.2	220.7	213.2	211.5
77.5°	162.9	163.5	160.6	156.6	157.7
80°	117.9	110.9	108.6	106.3	105.7
82.5°	72.2	68.2	66.4	65.9	67.0
85°	37.0	35.2	35.8	34.1	35.8
87.5°	12.7	12.7	13.3	12.7	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)