

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: P412547

Luminaire Tested: **24PD-60-PB1-L930**

Issue Date: 9/15/2020



**Test Information**

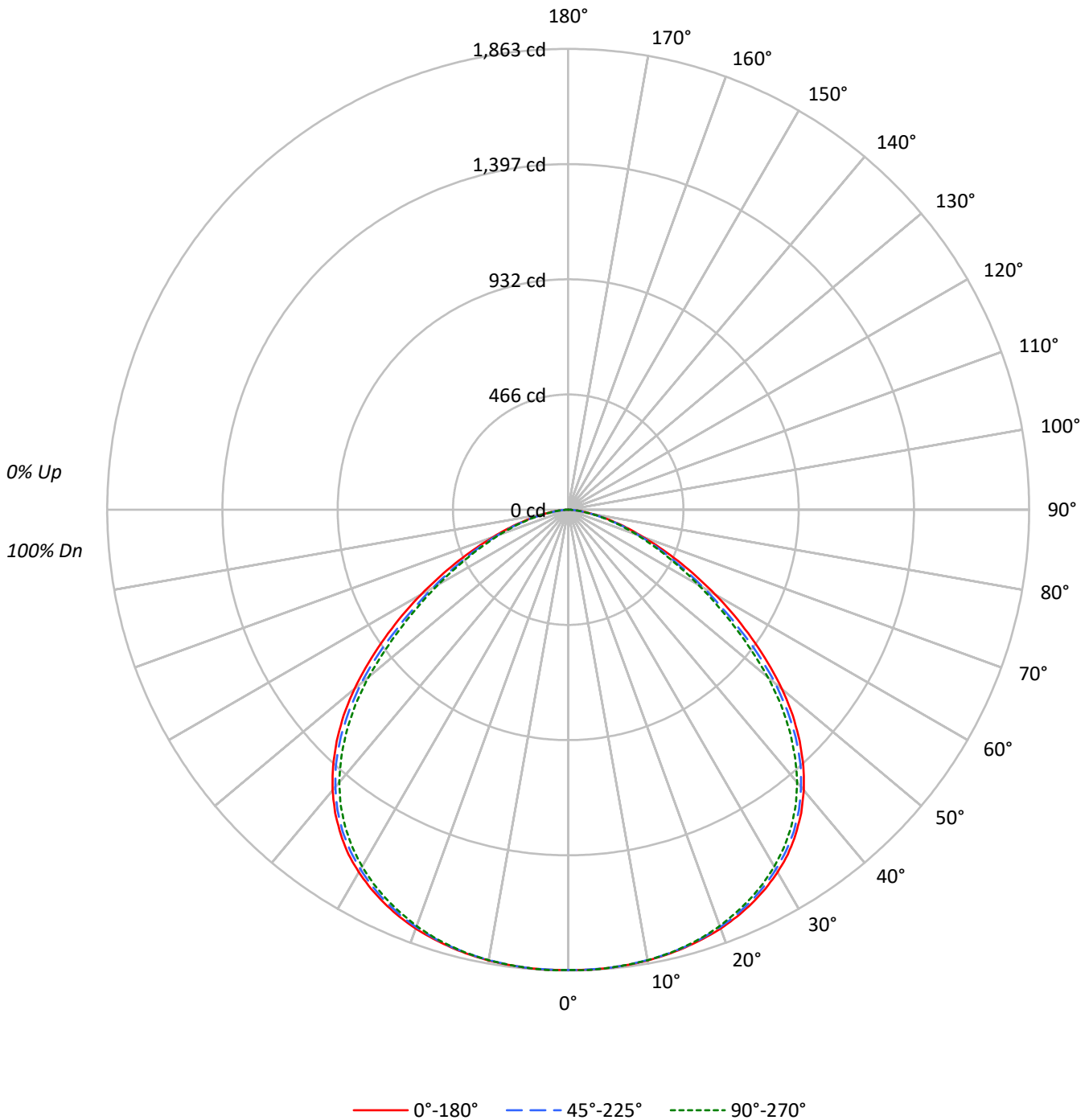
Test Method: LM-79-08  
Report Number: P412547  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-60-PB1-L930  
Description: 6000 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: 4951.0 lumens  
Efficiency: N/A  
Efficacy: 109.1 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): 45.4  
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°	2503	2503	2503
5°	2512	2512	2512
10°	2529	2526	2527
15°	2551	2548	2546
20°	2580	2572	2565
25°	2607	2594	2579
30°	2630	2608	2588
35°	2632	2610	2577
40°	2602	2572	2528
45°	2518	2472	2408
50°	2361	2287	2204
55°	2122	1996	1913
60°	1847	1700	1635
65°	1554	1438	1375
70°	1267	1203	1154
75°	1015	979	938
80°	779	718	699
85°	488	472	472



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.1	3.6
10°-20°	517.1	10.4
20°-30°	805.5	16.3
30°-40°	990.9	20.0
40°-50°	995.4	20.1
50°-60°	767.2	15.5
60°-70°	455.4	9.2
70°-80°	202.8	4.1
80°-90°	39.6	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°	1499.7	30.3
0°-40°	2490.7	50.3
0°-60°	4253.2	85.9
0°-90°	4951.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4951.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1861	1861	1861	1861	1861	
5°	1860	1860	1860	1858	1860	177
15°	1832	1832	1829	1826	1828	518
25°	1756	1756	1747	1739	1737	810
35°	1603	1600	1589	1576	1569	1001
45°	1323	1320	1299	1277	1265	1016
55°	904	887	851	825	816	809
65°	488	467	452	434	432	488
75°	195	191	188	182	180	211
85°	32	30	31	29	31	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1860.6	1860.6	1860.6	1860.6	1860.6
2.5°	1861.6	1861.1	1861.1	1859.2	1863.1
5°	1859.7	1860.2	1859.7	1857.7	1859.7
7.5°	1855.7	1856.2	1855.2	1853.3	1855.2
10°	1850.8	1850.8	1848.8	1847.8	1849.3
12.5°	1842.4	1842.4	1840.4	1839.0	1840.4
15°	1831.6	1831.6	1829.1	1826.1	1827.6
17.5°	1818.2	1818.2	1814.3	1810.3	1811.3
20°	1802.0	1801.5	1796.0	1790.6	1791.1
22.5°	1781.3	1780.8	1773.9	1767.4	1765.5
25°	1756.1	1755.6	1747.2	1739.3	1737.4
27.5°	1727.0	1725.0	1715.7	1706.8	1704.8
30°	1692.5	1691.0	1678.7	1669.8	1665.9
32.5°	1652.5	1648.6	1637.3	1626.4	1621.0
35°	1602.7	1600.3	1588.9	1575.6	1569.2
37.5°	1546.5	1544.0	1531.7	1516.9	1509.5
40°	1481.4	1479.4	1464.2	1448.9	1439.5
42.5°	1406.5	1405.0	1388.7	1367.5	1357.6
45°	1323.1	1319.7	1299.0	1277.3	1265.4
47.5°	1230.4	1224.5	1199.3	1178.6	1165.8
50°	1127.8	1119.9	1092.8	1066.2	1052.9
52.5°	1016.9	1003.1	975.0	944.4	931.6
55°	904.4	887.2	850.7	825.0	815.7
57.5°	794.5	769.3	734.8	716.5	707.2
60°	686.5	658.8	631.7	614.0	607.6
62.5°	583.4	560.2	537.0	519.3	515.3
65°	488.2	467.0	451.7	434.5	432.0
67.5°	399.5	389.6	375.8	361.0	359.0
70°	322.0	318.1	305.8	296.9	293.4
72.5°	256.9	253.0	244.1	237.7	236.7
75°	195.3	191.3	188.4	182.0	180.5
77.5°	139.1	139.6	137.1	133.6	134.6
80°	100.6	94.7	92.7	90.7	90.2
82.5°	61.6	58.2	56.7	56.2	57.2
85°	31.6	30.1	30.6	29.1	30.6
87.5°	10.8	10.8	11.3	10.8	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)