

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: P412875

Luminaire Tested: **24PD-55-PP3-L830**

Issue Date: 9/15/2020



**Test Information**

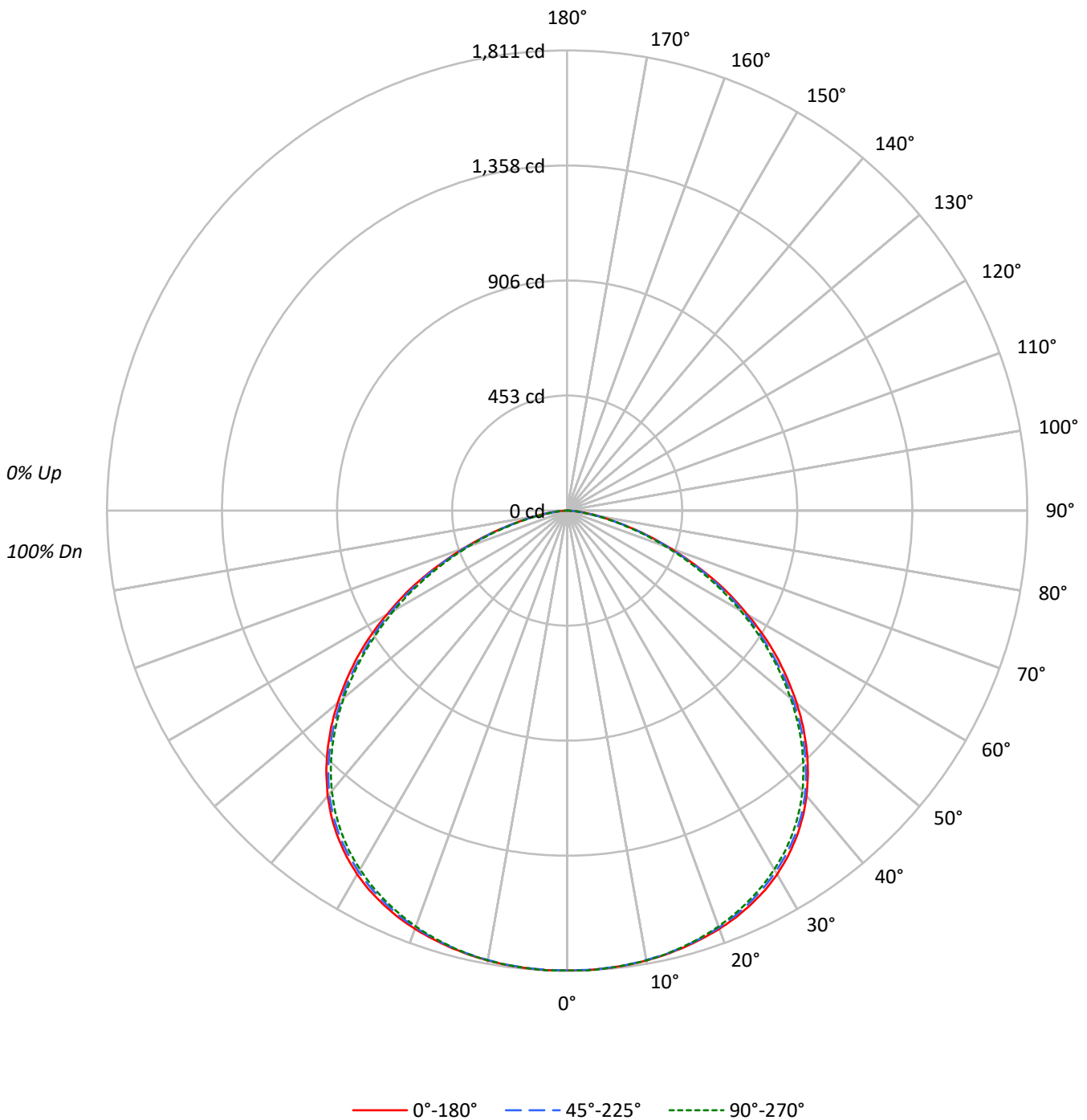
Test Method: LM-79-08  
Report Number: P412875  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-55-PP3-L830  
Description: 5500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5266.0 lumens  
Efficiency: N/A  
Efficacy: 126.3 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 41.7  
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	105	101	97	107	103	99	96	98	95	93		95	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	77	74	71
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71	66	63	60
4	83	72	63	56	81	70	62	56	68	61	55		65	59	54		63	58	54	52
5	77	64	55	49	75	63	54	48	61	53	48		59	52	47		57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42		53	46	41		52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37		48	42	37		47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33		44	38	33		43	37	32	31
9	57	44	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°	2435	2435	2435
5°	2442	2441	2442
10°	2457	2454	2456
15°	2478	2475	2473
20°	2508	2500	2494
25°	2540	2527	2515
30°	2568	2550	2534
35°	2582	2566	2543
40°	2575	2559	2531
45°	2538	2513	2485
50°	2469	2429	2404
55°	2366	2310	2280
60°	2205	2167	2123
65°	1999	1959	1902
70°	1706	1675	1621
75°	1332	1319	1255
80°	982	942	889
85°	593	593	553



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.2	3.3
10°-20°	502.4	9.5
20°-30°	785.3	14.9
30°-40°	976.0	18.5
40°-50°	1016.9	19.3
50°-60°	882.4	16.8
60°-70°	606.8	11.5
70°-80°	273.8	5.2
80°-90°	50.2	1.0
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°	1459.9	27.7
0°-40°	2435.9	46.3
0°-60°	4335.3	82.3
0°-90°	5266.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5266.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1810	1810	1810	1810	1810	
5°	1808	1808	1807	1806	1808	172
15°	1779	1779	1777	1775	1776	503
25°	1711	1710	1702	1695	1694	789
35°	1572	1572	1562	1554	1548	982
45°	1334	1335	1321	1311	1306	1027
55°	1009	1003	985	973	972	899
65°	628	625	615	600	597	620
75°	256	257	254	247	242	279
85°	38	38	38	38	36	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1809.8	1809.8	1809.8	1809.8	1809.8
2.5°	1810.3	1810.3	1809.2	1807.7	1811.3
5°	1807.7	1808.2	1807.1	1805.6	1808.2
7.5°	1804.0	1804.5	1802.9	1801.4	1803.5
10°	1798.2	1797.7	1796.1	1795.0	1797.7
12.5°	1789.8	1789.2	1787.7	1786.6	1788.7
15°	1779.2	1779.2	1776.6	1775.0	1775.6
17.5°	1766.6	1766.6	1762.9	1759.3	1760.3
20°	1751.9	1751.4	1746.1	1742.4	1741.9
22.5°	1733.5	1733.5	1726.1	1721.4	1719.8
25°	1710.8	1710.3	1701.9	1695.0	1694.0
27.5°	1685.0	1684.0	1674.0	1667.2	1664.5
30°	1652.9	1651.9	1641.4	1634.0	1630.8
32.5°	1615.1	1616.6	1604.5	1596.1	1593.0
35°	1571.9	1571.9	1562.4	1553.5	1548.2
37.5°	1522.4	1522.4	1513.5	1504.5	1498.2
40°	1466.1	1466.7	1457.2	1446.1	1440.9
42.5°	1403.0	1404.0	1391.4	1382.5	1376.7
45°	1334.0	1334.6	1320.9	1310.9	1306.2
47.5°	1259.3	1258.3	1243.0	1234.6	1229.8
50°	1179.3	1177.2	1160.4	1152.5	1148.3
52.5°	1095.7	1091.4	1076.7	1065.1	1061.4
55°	1008.8	1003.0	984.6	973.0	972.0
57.5°	918.3	911.5	896.2	885.2	880.9
60°	819.4	817.8	805.2	792.0	788.8
62.5°	726.8	722.0	711.0	695.2	693.6
65°	627.8	625.2	615.2	600.5	597.3
67.5°	525.7	528.4	519.9	506.8	502.6
70°	433.6	435.2	425.7	413.6	412.1
72.5°	341.0	343.6	335.7	327.9	326.3
75°	256.3	257.3	253.7	246.8	241.5
77.5°	182.1	185.8	181.6	176.8	172.6
80°	126.8	121.0	121.6	119.5	114.7
82.5°	76.3	73.7	73.1	71.0	68.9
85°	38.4	37.9	38.4	37.9	35.8
87.5°	12.6	13.7	14.2	14.2	13.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)