

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: P412539

Luminaire Tested: **24PD-55-PB1-L935**

Issue Date: 9/15/2020



**Test Information**

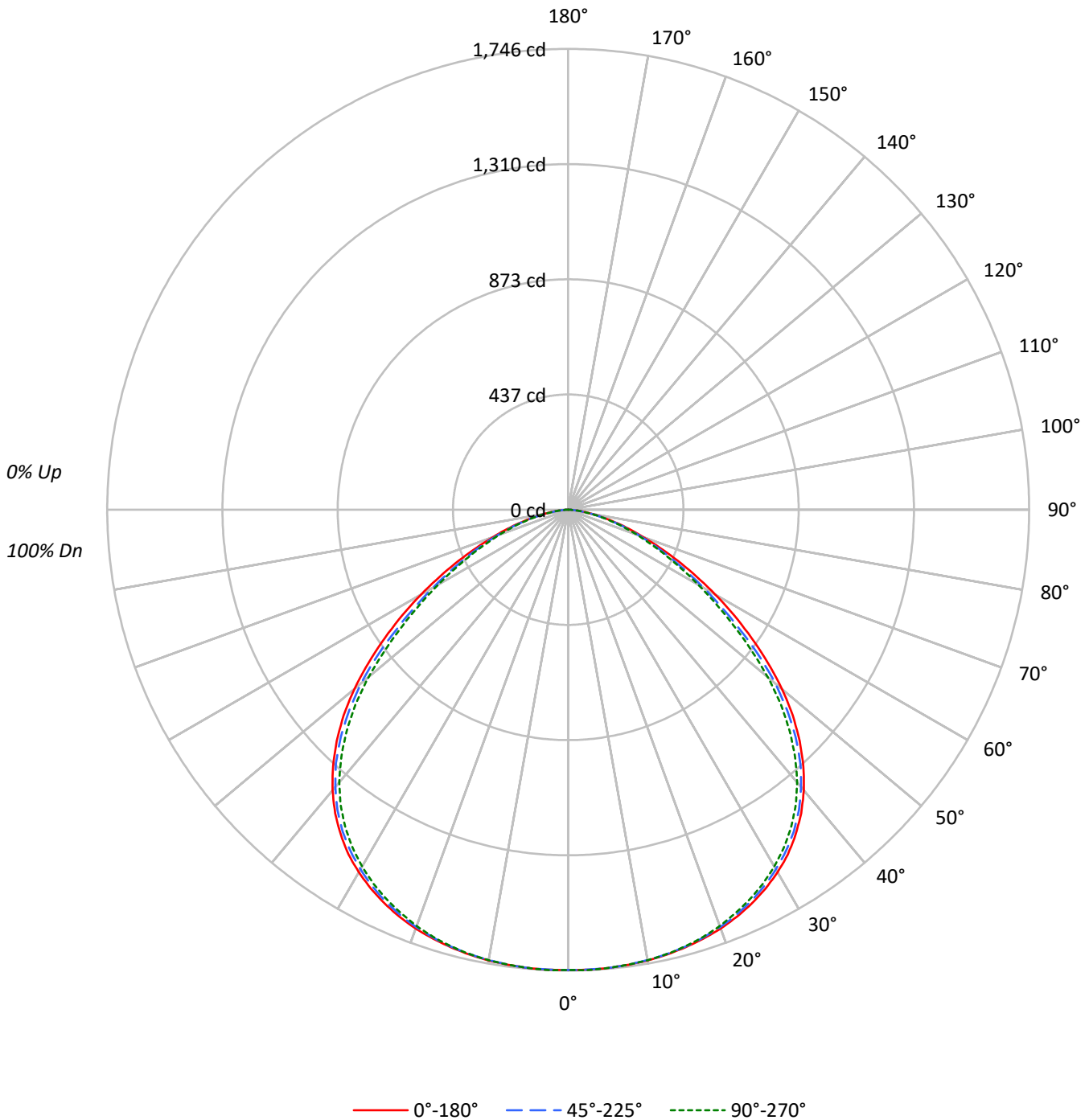
Test Method: LM-79-08  
Report Number: P412539  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-55-PB1-L935  
Description: 5500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4640.0 lumens  
Efficiency: N/A  
Efficacy: 111.3 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): 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	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°	2346	2346	2346
5°	2354	2354	2354
10°	2370	2367	2368
15°	2391	2388	2386
20°	2418	2410	2403
25°	2443	2431	2417
30°	2464	2444	2426
35°	2467	2446	2416
40°	2439	2410	2370
45°	2359	2316	2257
50°	2213	2144	2065
55°	1988	1870	1793
60°	1731	1593	1532
65°	1457	1348	1289
70°	1187	1127	1082
75°	951	918	880
80°	731	673	656
85°	457	443	443



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.0	3.6
10°-20°	484.6	10.4
20°-30°	754.9	16.3
30°-40°	928.7	20.0
40°-50°	932.8	20.1
50°-60°	719.0	15.5
60°-70°	426.8	9.2
70°-80°	190.0	4.1
80°-90°	37.1	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°	1405.5	30.3
0°-40°	2334.2	50.3
0°-60°	3986.0	85.9
0°-90°	4640.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4640.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1744	1744	1744	1744	1744	
5°	1743	1743	1743	1741	1743	166
15°	1716	1716	1714	1711	1713	485
25°	1646	1645	1638	1630	1628	759
35°	1502	1500	1489	1477	1471	938
45°	1240	1237	1217	1197	1186	952
55°	848	831	797	773	764	758
65°	458	438	423	407	405	457
75°	183	179	176	170	169	198
85°	30	28	29	27	29	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1743.8	1743.8	1743.8	1743.8	1743.8
2.5°	1744.7	1744.2	1744.2	1742.4	1746.1
5°	1742.8	1743.3	1742.8	1741.0	1742.8
7.5°	1739.1	1739.6	1738.7	1736.8	1738.7
10°	1734.5	1734.5	1732.7	1731.8	1733.1
12.5°	1726.7	1726.7	1724.8	1723.4	1724.8
15°	1716.5	1716.5	1714.2	1711.4	1712.8
17.5°	1704.0	1704.0	1700.3	1696.6	1697.6
20°	1688.8	1688.3	1683.2	1678.1	1678.6
22.5°	1669.4	1668.9	1662.4	1656.4	1654.6
25°	1645.8	1645.3	1637.5	1630.1	1628.2
27.5°	1618.5	1616.7	1607.9	1599.6	1597.7
30°	1586.2	1584.8	1573.2	1564.9	1561.2
32.5°	1548.7	1545.0	1534.4	1524.2	1519.2
35°	1502.1	1499.7	1489.1	1476.6	1470.6
37.5°	1449.4	1447.1	1435.5	1421.6	1414.7
40°	1388.4	1386.5	1372.2	1357.9	1349.1
42.5°	1318.1	1316.7	1301.5	1281.6	1272.4
45°	1240.0	1236.8	1217.4	1197.0	1185.9
47.5°	1153.1	1147.6	1124.0	1104.6	1092.6
50°	1057.0	1049.6	1024.2	999.2	986.7
52.5°	953.0	940.1	913.7	885.1	873.0
55°	847.6	831.4	797.2	773.2	764.4
57.5°	744.6	721.0	688.6	671.5	662.8
60°	643.3	617.5	592.0	575.4	569.4
62.5°	546.7	525.0	503.3	486.7	483.0
65°	457.5	437.7	423.3	407.2	404.9
67.5°	374.4	365.1	352.2	338.3	336.5
70°	301.8	298.1	286.5	278.2	275.0
72.5°	240.8	237.1	228.8	222.8	221.8
75°	183.0	179.3	176.5	170.5	169.2
77.5°	130.3	130.8	128.5	125.2	126.2
80°	94.3	88.7	86.9	85.0	84.6
82.5°	57.8	54.5	53.1	52.7	53.6
85°	29.6	28.2	28.7	27.3	28.7
87.5°	10.2	10.2	10.6	10.2	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)