

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: P412422

Luminaire Tested: **22PD-55-PB1-L935**

Issue Date: 9/15/2020



**Test Information**

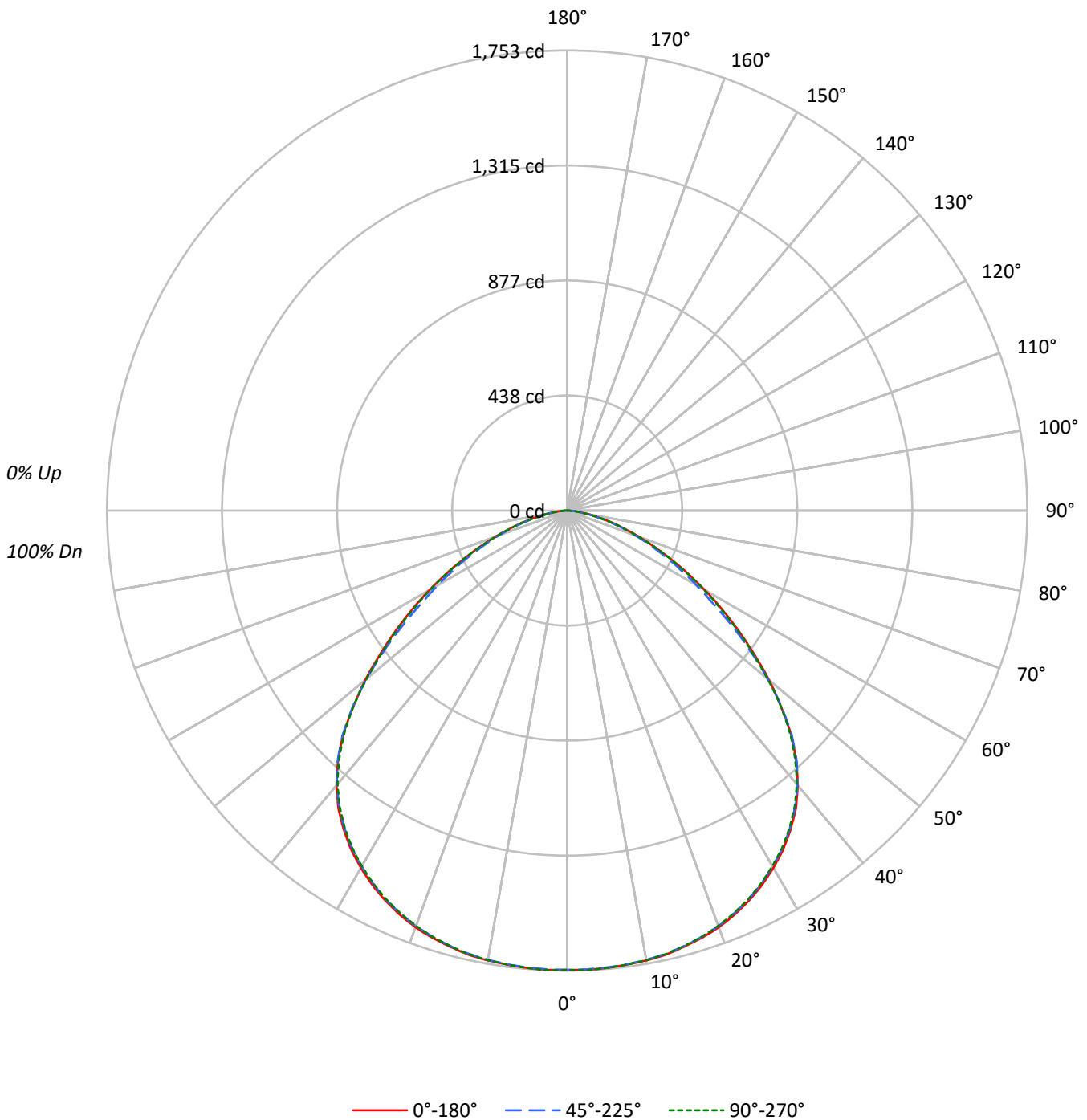
Test Method: LM-79-08  
Report Number: P412422  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-55-PB1-L935  
Description: 5500 LUMEN 2X2 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: 4594.0 lumens  
Efficiency: N/A  
Efficacy: 99.4 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.32 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 46.2  
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	76	73
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	41	34	29	41	34	29	40	33	29	39	33	29	27

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

	0°	45°	90°
0°	4709	4709	4709
5°	4724	4719	4725
10°	4755	4749	4752
15°	4793	4786	4786
20°	4837	4824	4820
25°	4868	4853	4849
30°	4884	4864	4861
35°	4874	4860	4851
40°	4801	4795	4780
45°	4590	4604	4569
50°	4202	4179	4175
55°	3734	3602	3709
60°	3256	3057	3235
65°	2760	2611	2746
70°	2282	2188	2260
75°	1845	1727	1772
80°	1333	1291	1283
85°	868	868	837



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.5	3.6
10°-20°	485.6	10.6
20°-30°	753.5	16.4
30°-40°	924.0	20.1
40°-50°	923.7	20.1
50°-60°	699.7	15.2
60°-70°	419.6	9.1
70°-80°	184.8	4.0
80°-90°	36.6	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°	1405.6	30.6
0°-40°	2329.6	50.7
0°-60°	3953.0	86.0
0°-90°	4594.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4594.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1750	1750	1750	1750	1750	
5°	1749	1747	1747	1747	1749	167
15°	1721	1719	1718	1717	1718	486
25°	1640	1636	1635	1632	1633	756
35°	1484	1483	1479	1478	1477	927
45°	1206	1208	1210	1207	1201	923
55°	796	779	768	778	790	714
65°	433	418	410	417	431	433
75°	178	174	166	169	170	189
85°	28	29	28	27	27	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1749.8	1749.8	1749.8	1749.8	1749.8
2.5°	1751.5	1748.8	1749.3	1749.3	1752.6
5°	1748.8	1746.6	1747.1	1746.6	1749.3
7.5°	1745.0	1742.8	1743.4	1742.8	1744.4
10°	1740.1	1737.9	1737.9	1736.9	1739.0
12.5°	1733.6	1730.9	1729.8	1729.3	1730.9
15°	1720.6	1719.0	1717.9	1716.8	1717.9
17.5°	1706.6	1703.9	1702.8	1700.6	1702.8
20°	1689.2	1685.5	1684.4	1682.8	1683.3
22.5°	1666.5	1663.3	1661.7	1658.9	1660.0
25°	1639.5	1636.2	1634.6	1631.9	1633.0
27.5°	1608.1	1605.9	1602.1	1600.0	1600.5
30°	1571.8	1569.7	1565.3	1564.3	1564.3
32.5°	1531.8	1529.1	1525.3	1524.2	1523.7
35°	1483.6	1483.1	1479.3	1478.2	1476.6
37.5°	1431.2	1430.1	1425.7	1424.7	1423.0
40°	1366.8	1365.7	1365.1	1363.0	1360.8
42.5°	1292.1	1293.7	1294.8	1290.5	1286.1
45°	1206.1	1207.7	1209.9	1206.6	1200.7
47.5°	1105.4	1111.9	1108.7	1110.8	1104.9
50°	1003.7	1003.7	998.3	1000.5	997.2
52.5°	897.1	888.5	882.0	886.3	890.6
55°	795.9	778.6	767.8	778.1	790.5
57.5°	699.1	678.5	658.5	674.7	689.9
60°	604.9	581.1	568.1	580.0	601.1
62.5°	515.6	498.3	485.3	494.5	512.4
65°	433.4	418.3	410.1	417.2	431.2
67.5°	358.2	347.9	339.8	345.7	356.6
70°	290.0	287.3	278.1	280.8	287.3
72.5°	227.8	227.3	219.1	221.3	225.1
75°	177.5	173.7	166.1	168.8	170.4
77.5°	125.5	127.2	120.1	121.7	121.7
80°	86.0	88.7	83.3	82.2	82.8
82.5°	54.6	54.6	54.1	53.6	51.9
85°	28.1	29.2	28.1	27.1	27.1
87.5°	10.8	10.8	10.8	10.3	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)