

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: P412423

Luminaire Tested: **22PD-55-PB1-L940**

Issue Date: 9/15/2020



**Test Information**

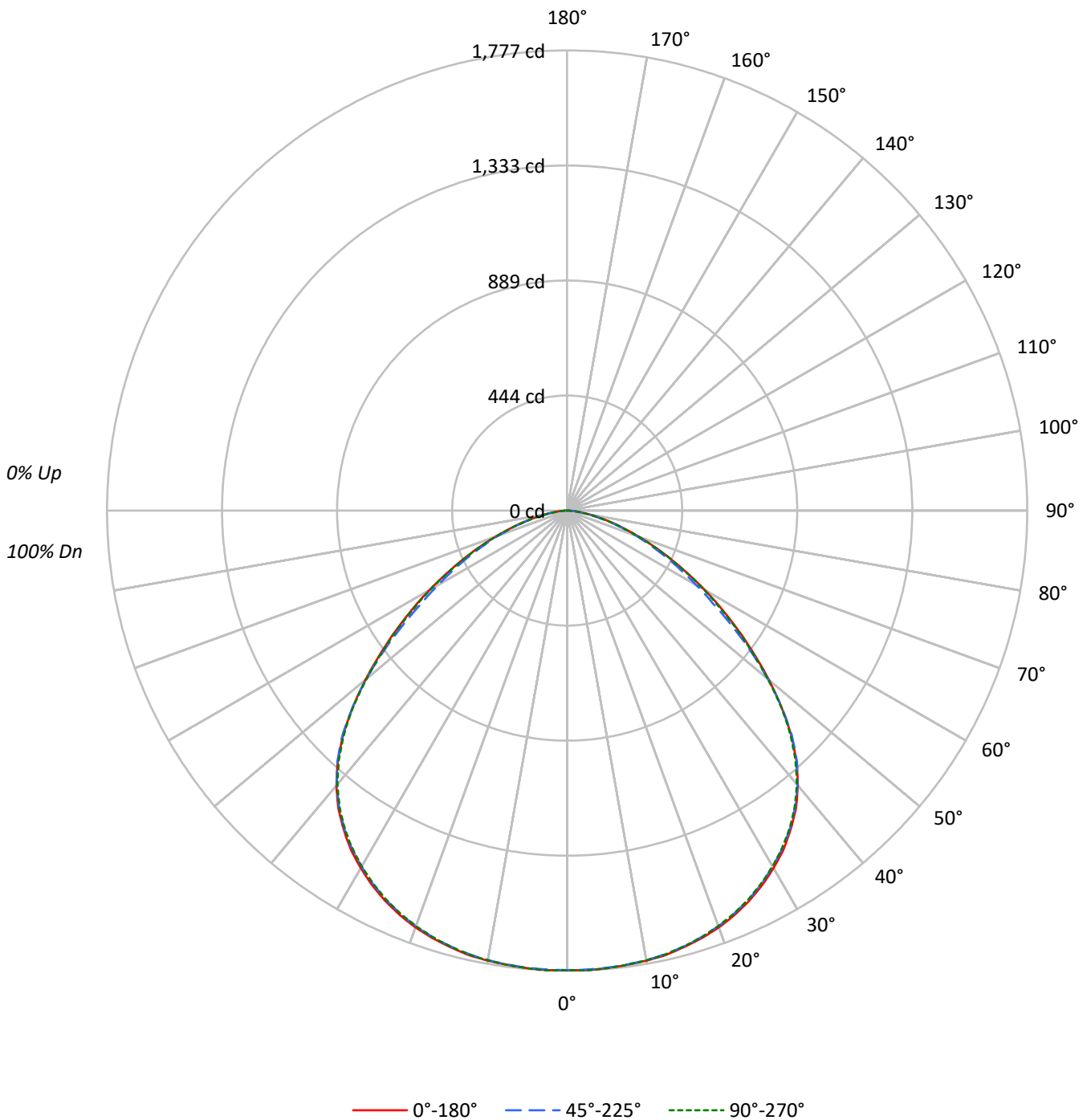
Test Method: LM-79-08  
Report Number: P412423  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-55-PB1-L940  
Description: 5500 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4659.0 lumens  
Efficiency: N/A  
Efficacy: 100.8 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°	4775	4775	4775
5°	4791	4786	4792
10°	4822	4816	4819
15°	4861	4854	4854
20°	4906	4892	4889
25°	4937	4922	4917
30°	4953	4933	4929
35°	4943	4928	4919
40°	4869	4864	4848
45°	4655	4669	4634
50°	4261	4238	4234
55°	3787	3653	3761
60°	3302	3101	3281
65°	2798	2648	2784
70°	2314	2219	2293
75°	1871	1752	1798
80°	1351	1309	1302
85°	880	880	846



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.9	3.6
10°-20°	492.5	10.6
20°-30°	764.2	16.4
30°-40°	937.1	20.1
40°-50°	936.7	20.1
50°-60°	709.6	15.2
60°-70°	425.6	9.1
70°-80°	187.4	4.0
80°-90°	37.2	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°	1425.5	30.6
0°-40°	2362.6	50.7
0°-60°	4008.9	86.0
0°-90°	4659.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4659.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1775	1775	1775	1775	1775	
5°	1774	1771	1772	1771	1774	169
15°	1745	1743	1742	1741	1742	493
25°	1663	1659	1658	1655	1656	766
35°	1505	1504	1500	1499	1498	940
45°	1223	1225	1227	1224	1218	936
55°	807	790	779	789	802	724
65°	440	424	416	423	437	440
75°	180	176	168	171	173	192
85°	28	30	28	27	27	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1774.6	1774.6	1774.6	1774.6	1774.6
2.5°	1776.3	1773.5	1774.1	1774.1	1777.4
5°	1773.5	1771.3	1771.9	1771.3	1774.1
7.5°	1769.7	1767.5	1768.0	1767.5	1769.1
10°	1764.7	1762.5	1762.5	1761.4	1763.6
12.5°	1758.1	1755.4	1754.3	1753.8	1755.4
15°	1745.0	1743.3	1742.2	1741.1	1742.2
17.5°	1730.7	1728.0	1726.9	1724.7	1726.9
20°	1713.1	1709.3	1708.2	1706.6	1707.1
22.5°	1690.1	1686.8	1685.2	1682.4	1683.5
25°	1662.7	1659.4	1657.7	1655.0	1656.1
27.5°	1630.8	1628.6	1624.8	1622.6	1623.2
30°	1594.1	1591.9	1587.5	1586.4	1586.4
32.5°	1553.5	1550.7	1546.9	1545.8	1545.2
35°	1504.6	1504.1	1500.2	1499.1	1497.5
37.5°	1451.4	1450.3	1445.9	1444.8	1443.2
40°	1386.1	1385.0	1384.5	1382.3	1380.1
42.5°	1310.4	1312.0	1313.1	1308.7	1304.3
45°	1223.1	1224.8	1227.0	1223.7	1217.6
47.5°	1121.1	1127.6	1124.4	1126.6	1120.5
50°	1017.9	1017.9	1012.4	1014.6	1011.3
52.5°	909.8	901.0	894.4	898.8	903.2
55°	807.2	789.6	778.7	789.1	801.7
57.5°	709.0	688.1	667.8	684.3	699.6
60°	613.5	589.3	576.2	588.2	609.6
62.5°	522.9	505.4	492.2	501.5	519.7
65°	439.5	424.2	415.9	423.1	437.3
67.5°	363.3	352.8	344.6	350.6	361.6
70°	294.1	291.4	282.0	284.8	291.4
72.5°	231.0	230.5	222.2	224.4	228.3
75°	180.0	176.1	168.5	171.2	172.9
77.5°	127.3	129.0	121.8	123.5	123.5
80°	87.2	90.0	84.5	83.4	84.0
82.5°	55.4	55.4	54.9	54.3	52.7
85°	28.5	29.6	28.5	27.4	27.4
87.5°	11.0	11.0	11.0	10.4	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)