

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: P412424

Luminaire Tested: **22PD-55-PB1-L950**

Issue Date: 9/15/2020



**Test Information**

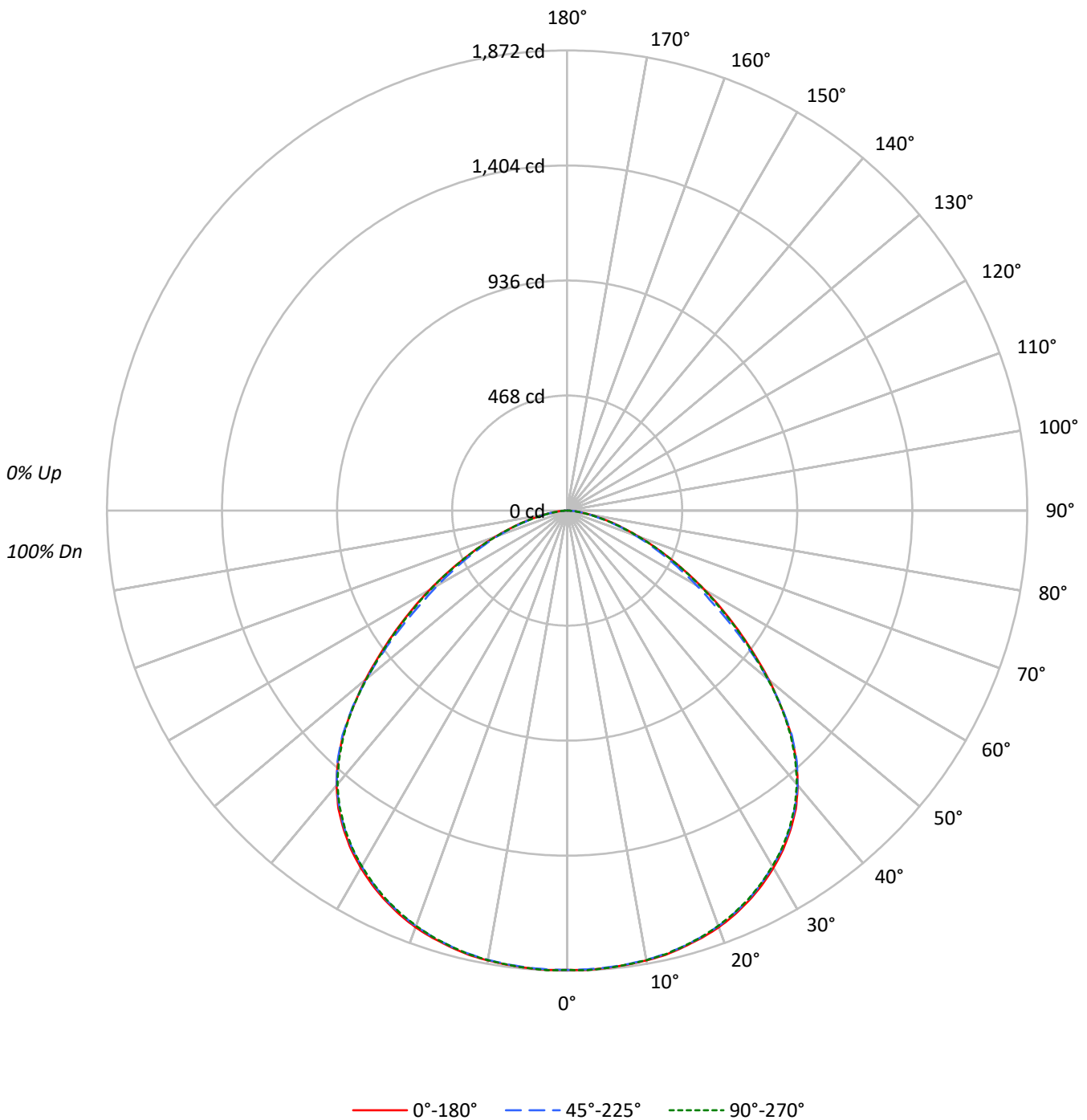
Test Method: LM-79-08  
Report Number: P412424  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-55-PB1-L950  
Description: 5500 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4906.0 lumens  
Efficiency: N/A  
Efficacy: 106.2 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°	5029	5029	5029
5°	5045	5040	5046
10°	5078	5072	5075
15°	5119	5111	5111
20°	5166	5151	5148
25°	5198	5183	5178
30°	5216	5194	5191
35°	5205	5190	5180
40°	5127	5121	5105
45°	4902	4917	4880
50°	4487	4463	4458
55°	3988	3847	3961
60°	3477	3265	3455
65°	2947	2789	2932
70°	2437	2337	2414
75°	1970	1844	1892
80°	1424	1379	1370
85°	926	926	892



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.8	3.6
10°-20°	518.6	10.6
20°-30°	804.7	16.4
30°-40°	986.8	20.1
40°-50°	986.4	20.1
50°-60°	747.2	15.2
60°-70°	448.1	9.1
70°-80°	197.3	4.0
80°-90°	39.2	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°	1501.0	30.6
0°-40°	2487.8	50.7
0°-60°	4221.4	86.0
0°-90°	4906.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4906.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1869	1869	1869	1869	1869	
5°	1868	1865	1866	1865	1868	178
15°	1838	1836	1835	1833	1835	520
25°	1751	1747	1746	1743	1744	807
35°	1584	1584	1580	1579	1577	990
45°	1288	1290	1292	1289	1282	986
55°	850	832	820	831	844	762
65°	463	447	438	446	460	463
75°	190	186	177	180	182	202
85°	30	31	30	29	29	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1868.7	1868.7	1868.7	1868.7	1868.7
2.5°	1870.4	1867.5	1868.1	1868.1	1871.6
5°	1867.5	1865.2	1865.8	1865.2	1868.1
7.5°	1863.5	1861.2	1861.8	1861.2	1862.9
10°	1858.3	1856.0	1856.0	1854.8	1857.1
12.5°	1851.4	1848.5	1847.3	1846.7	1848.5
15°	1837.5	1835.8	1834.6	1833.4	1834.6
17.5°	1822.5	1819.6	1818.4	1816.1	1818.4
20°	1804.0	1799.9	1798.8	1797.0	1797.6
22.5°	1779.7	1776.2	1774.5	1771.6	1772.8
25°	1750.8	1747.3	1745.6	1742.7	1743.9
27.5°	1717.3	1715.0	1710.9	1708.6	1709.2
30°	1678.6	1676.3	1671.7	1670.5	1670.5
32.5°	1635.8	1632.9	1628.9	1627.7	1627.2
35°	1584.4	1583.8	1579.8	1578.6	1576.9
37.5°	1528.4	1527.2	1522.6	1521.4	1519.7
40°	1459.6	1458.4	1457.9	1455.5	1453.2
42.5°	1379.8	1381.6	1382.7	1378.1	1373.5
45°	1288.0	1289.7	1292.0	1288.6	1282.2
47.5°	1180.5	1187.4	1184.0	1186.3	1179.9
50°	1071.9	1071.9	1066.1	1068.4	1064.9
52.5°	958.0	948.8	941.9	946.5	951.1
55°	850.0	831.5	819.9	830.9	844.2
57.5°	746.6	724.6	703.2	720.5	736.7
60°	646.0	620.6	606.7	619.4	642.0
62.5°	550.7	532.2	518.3	528.1	547.2
65°	462.8	446.7	438.0	445.5	460.5
67.5°	382.5	371.5	362.9	369.2	380.8
70°	309.7	306.8	297.0	299.9	306.8
72.5°	243.3	242.7	234.0	236.3	240.4
75°	189.5	185.5	177.4	180.3	182.0
77.5°	134.1	135.8	128.3	130.0	130.0
80°	91.9	94.8	89.0	87.8	88.4
82.5°	58.4	58.4	57.8	57.2	55.5
85°	30.0	31.2	30.0	28.9	28.9
87.5°	11.6	11.6	11.6	11.0	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)