

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: P413225

Luminaire Tested: **24PD-55-PC3-L950**

Issue Date: 9/15/2020



**Test Information**

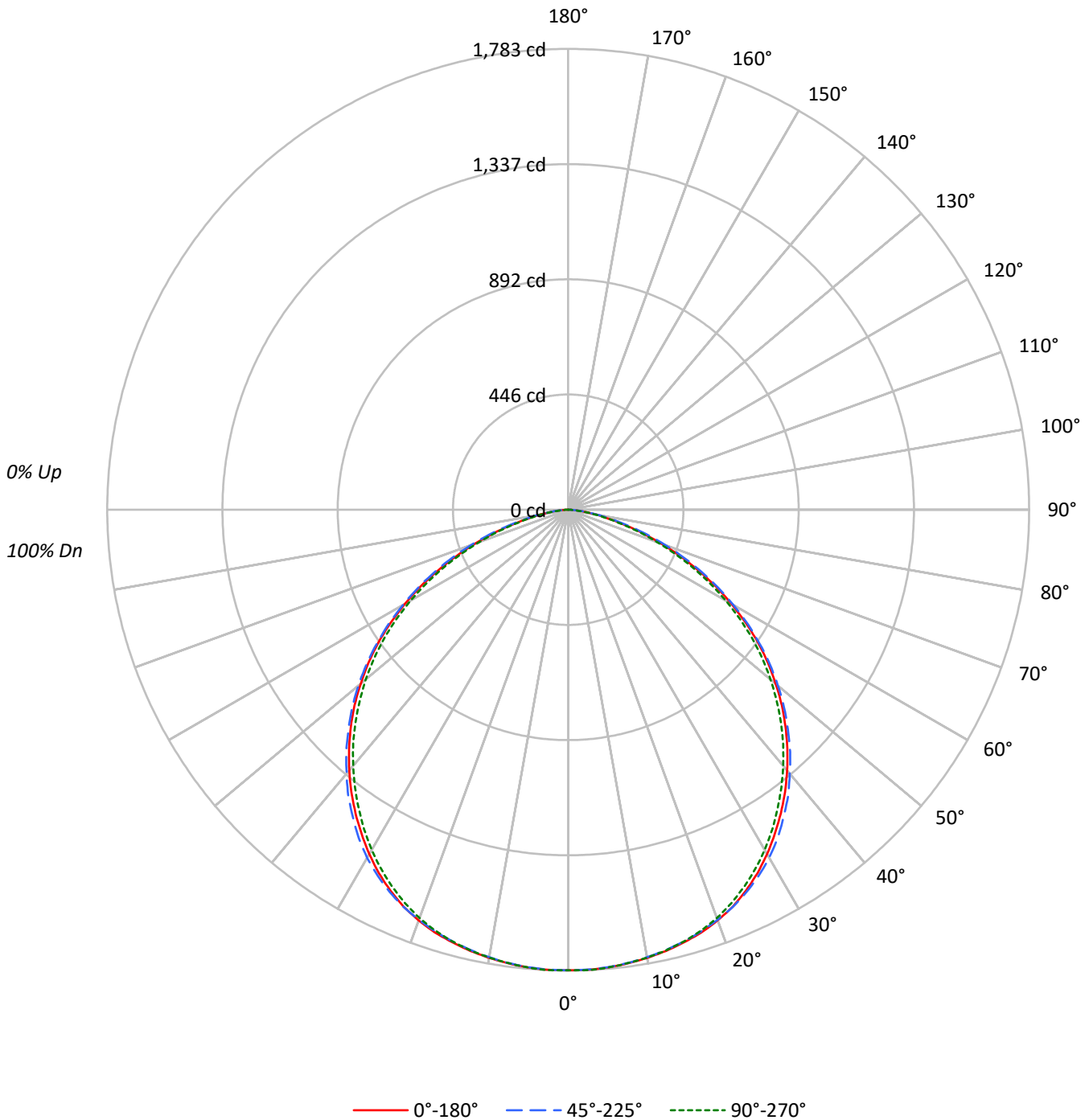
Test Method: LM-79-08  
Report Number: P413225  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-55-PC3-L950  
Description: 5500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4871.0 lumens  
Efficiency: N/A  
Efficacy: 116.8 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.38  
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	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	2398	2398	2398
5°	2401	2400	2402
10°	2406	2402	2404
15°	2414	2409	2409
20°	2422	2418	2407
25°	2415	2424	2390
30°	2391	2416	2361
35°	2355	2385	2320
40°	2314	2342	2272
45°	2262	2286	2215
50°	2192	2216	2138
55°	2102	2120	2039
60°	1962	1985	1894
65°	1768	1812	1699
70°	1501	1567	1441
75°	1162	1247	1109
80°	865	903	784
85°	534	571	496



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.1	3.5
10°-20°	488.7	10.0
20°-30°	748.4	15.4
30°-40°	900.4	18.5
40°-50°	918.1	18.8
50°-60°	796.0	16.3
60°-70°	551.8	11.3
70°-80°	252.0	5.2
80°-90°	46.5	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°	1406.2	28.9
0°-40°	2306.5	47.4
0°-60°	4020.6	82.5
0°-90°	4871.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4871.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1782	1782	1782	1782	1782	
5°	1778	1778	1777	1776	1778	169
15°	1733	1732	1729	1728	1730	490
25°	1627	1631	1632	1618	1610	749
35°	1434	1449	1452	1434	1412	897
45°	1189	1204	1202	1185	1164	916
55°	896	901	904	882	869	798
65°	555	567	569	550	534	549
75°	224	236	240	232	213	245
85°	35	36	37	35	32	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1782.1	1782.1	1782.1	1782.1	1782.1
2.5°	1782.1	1782.1	1781.1	1780.1	1783.0
5°	1777.6	1777.6	1776.6	1775.6	1778.1
7.5°	1770.7	1770.2	1769.2	1768.2	1769.7
10°	1760.8	1760.3	1758.4	1757.9	1759.8
12.5°	1748.5	1748.0	1745.0	1745.0	1746.5
15°	1732.7	1732.2	1729.2	1727.8	1729.7
17.5°	1714.9	1714.4	1711.0	1707.0	1708.0
20°	1691.2	1691.2	1688.8	1682.8	1681.4
22.5°	1662.6	1664.1	1664.1	1652.7	1648.3
25°	1626.6	1631.0	1632.5	1618.2	1609.8
27.5°	1585.6	1592.5	1596.4	1578.2	1567.3
30°	1538.7	1550.0	1555.0	1535.2	1519.4
32.5°	1487.4	1501.7	1507.6	1488.3	1468.1
35°	1434.0	1449.3	1452.3	1433.5	1412.3
37.5°	1377.3	1393.1	1397.0	1380.2	1354.1
40°	1317.5	1333.3	1333.3	1319.5	1293.8
42.5°	1254.4	1271.1	1270.6	1253.9	1230.7
45°	1188.7	1203.5	1201.5	1185.2	1164.0
47.5°	1121.1	1130.4	1132.9	1113.7	1093.4
50°	1047.0	1056.4	1058.9	1037.1	1021.4
52.5°	974.0	979.9	983.3	958.2	946.8
55°	896.0	901.4	903.9	881.7	869.3
57.5°	813.5	820.4	823.4	801.2	787.4
60°	729.1	736.5	737.5	716.8	703.9
62.5°	643.2	653.1	655.1	634.3	619.0
65°	555.4	567.2	569.2	549.9	533.6
67.5°	467.5	483.3	483.8	468.0	448.7
70°	381.6	398.9	398.4	385.0	366.3
72.5°	299.6	315.4	318.9	306.6	288.3
75°	223.6	236.0	239.9	232.0	213.3
77.5°	159.0	170.3	173.8	166.4	152.5
80°	111.6	112.1	116.5	110.6	101.2
82.5°	69.1	68.1	69.6	67.1	61.7
85°	34.6	35.5	37.0	35.0	32.1
87.5°	11.8	12.3	13.3	13.3	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)