

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: P412415

Luminaire Tested: **22PD-50-PB1-L950**

Issue Date: 9/15/2020



**Test Information**

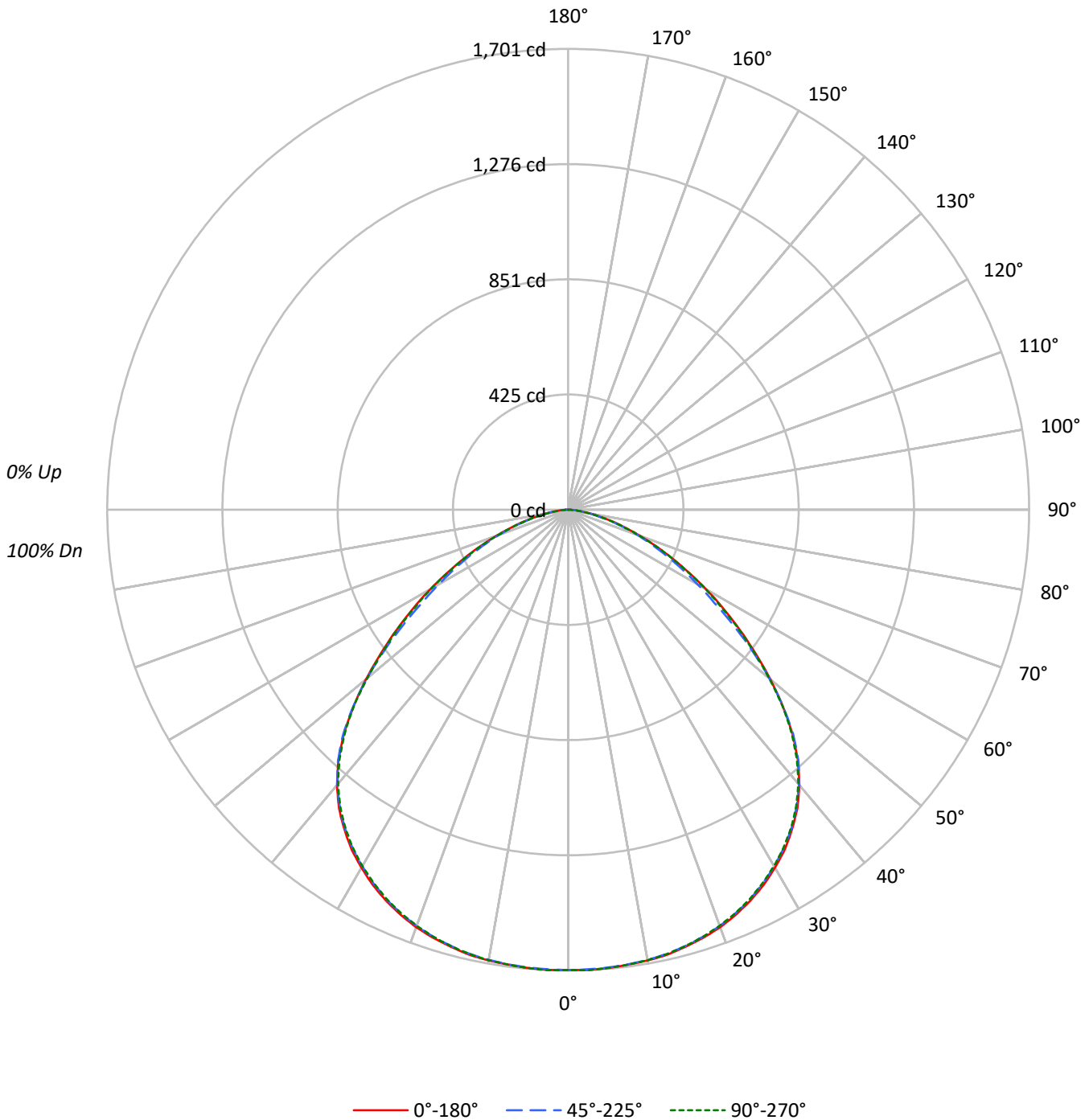
Test Method: LM-79-08  
Report Number: P412415  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-50-PB1-L950  
Description: 5000 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: 4460.0 lumens  
Efficiency: N/A  
Efficacy: 104.9 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): 42.5  
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	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					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	76	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63					63			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37					37			
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33					33			
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30					30			
10	55	42	34	29	54	41	34	29	41	34	29	40	33	29	39	33	29	27					27			

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

	0°	45°	90°
0°	4571	4571	4571
5°	4586	4582	4588
10°	4616	4611	4613
15°	4654	4646	4646
20°	4696	4683	4680
25°	4726	4712	4707
30°	4742	4722	4719
35°	4732	4718	4709
40°	4661	4656	4641
45°	4456	4470	4436
50°	4079	4057	4053
55°	3625	3497	3601
60°	3161	2969	3141
65°	2679	2535	2666
70°	2216	2124	2194
75°	1791	1677	1721
80°	1294	1254	1246
85°	843	843	812



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.6	3.6
10°-20°	471.4	10.6
20°-30°	731.5	16.4
30°-40°	897.1	20.1
40°-50°	896.7	20.1
50°-60°	679.3	15.2
60°-70°	407.4	9.1
70°-80°	179.4	4.0
80°-90°	35.6	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°	1364.6	30.6
0°-40°	2261.7	50.7
0°-60°	3837.6	86.0
0°-90°	4460.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4460.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1699	1699	1699	1699	1699	
5°	1698	1696	1696	1696	1698	162
15°	1670	1669	1668	1667	1668	472
25°	1592	1588	1587	1584	1585	734
35°	1440	1440	1436	1435	1434	900
45°	1171	1172	1175	1171	1166	896
55°	773	756	745	755	768	693
65°	421	406	398	405	419	421
75°	172	169	161	164	166	184
85°	27	28	27	26	26	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1698.8	1698.8	1698.8	1698.8	1698.8
2.5°	1700.4	1697.8	1698.3	1698.3	1701.4
5°	1697.8	1695.7	1696.2	1695.7	1698.3
7.5°	1694.1	1692.0	1692.5	1692.0	1693.6
10°	1689.4	1687.3	1687.3	1686.2	1688.3
12.5°	1683.1	1680.4	1679.4	1678.8	1680.4
15°	1670.4	1668.9	1667.8	1666.8	1667.8
17.5°	1656.8	1654.2	1653.1	1651.0	1653.1
20°	1640.0	1636.3	1635.2	1633.7	1634.2
22.5°	1617.9	1614.8	1613.2	1610.6	1611.6
25°	1591.6	1588.5	1586.9	1584.3	1585.3
27.5°	1561.2	1559.1	1555.4	1553.3	1553.8
30°	1526.0	1523.9	1519.7	1518.6	1518.6
32.5°	1487.1	1484.5	1480.8	1479.8	1479.2
35°	1440.4	1439.8	1436.2	1435.1	1433.5
37.5°	1389.4	1388.4	1384.2	1383.1	1381.5
40°	1326.9	1325.8	1325.3	1323.2	1321.1
42.5°	1254.4	1256.0	1257.0	1252.8	1248.6
45°	1170.9	1172.5	1174.6	1171.4	1165.6
47.5°	1073.2	1079.5	1076.3	1078.4	1072.7
50°	974.4	974.4	969.2	971.3	968.1
52.5°	870.9	862.5	856.2	860.4	864.6
55°	772.7	755.9	745.4	755.4	767.5
57.5°	678.7	658.7	639.3	655.0	669.8
60°	587.3	564.2	551.6	563.1	583.6
62.5°	500.6	483.8	471.2	480.1	497.5
65°	420.8	406.1	398.2	405.0	418.7
67.5°	347.7	337.8	329.9	335.7	346.2
70°	281.6	278.9	270.0	272.6	278.9
72.5°	221.1	220.6	212.7	214.8	218.5
75°	172.3	168.6	161.3	163.9	165.5
77.5°	121.9	123.4	116.6	118.2	118.2
80°	83.5	86.1	80.9	79.8	80.4
82.5°	53.1	53.1	52.5	52.0	50.4
85°	27.3	28.4	27.3	26.3	26.3
87.5°	10.5	10.5	10.5	10.0	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)