

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: P412406

Luminaire Tested: **22PD-45-PB1-L950**

Issue Date: 9/15/2020



**Test Information**

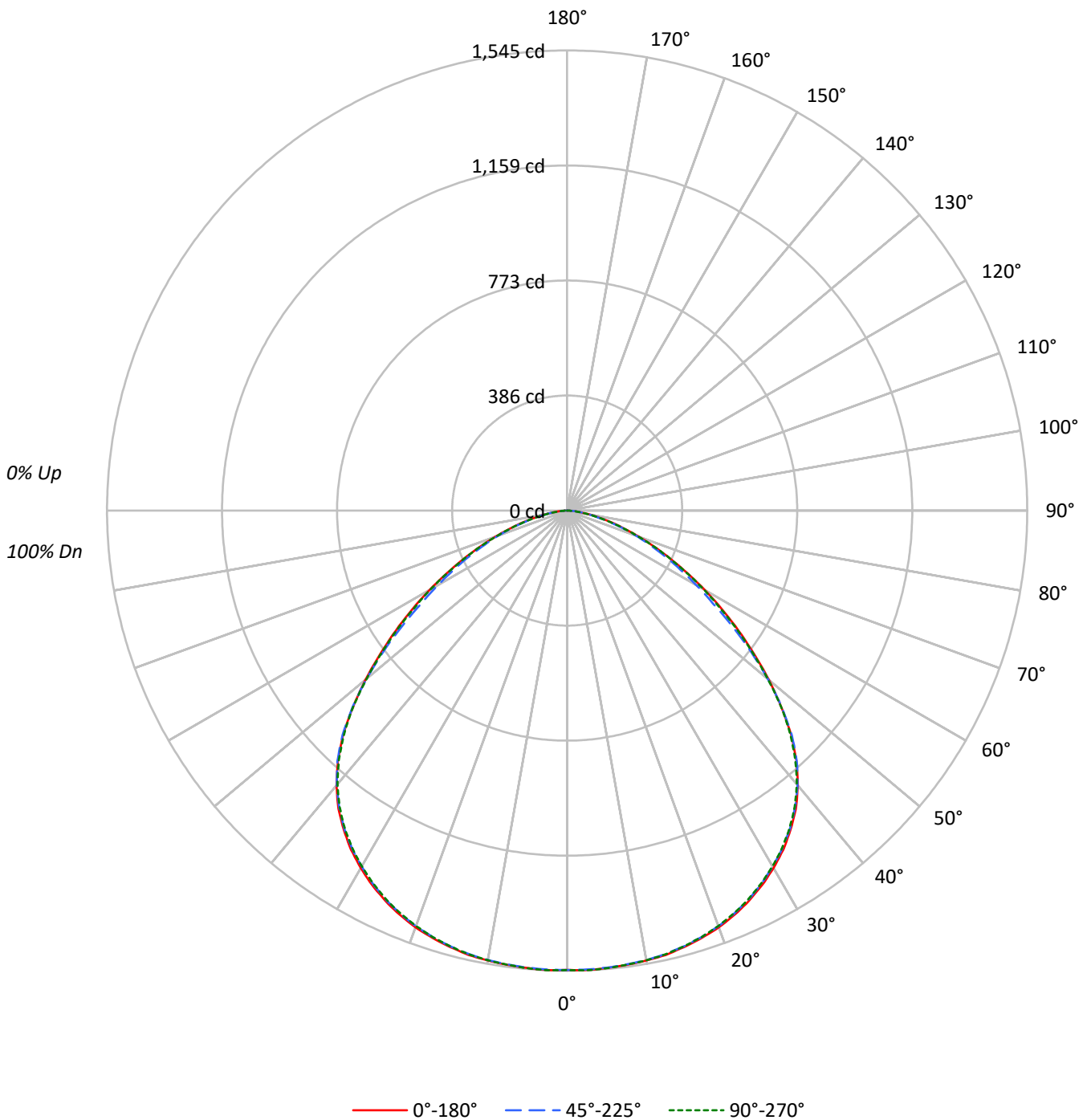
Test Method: LM-79-08  
Report Number: P412406  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-45-PB1-L950  
Description: 4500 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: 4050.0 lumens  
Efficiency: N/A  
Efficacy: 106.0 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): 38.2  
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°	4151	4151	4151
5°	4165	4161	4166
10°	4192	4186	4189
15°	4226	4219	4219
20°	4265	4252	4250
25°	4291	4279	4274
30°	4306	4288	4285
35°	4297	4284	4277
40°	4233	4228	4214
45°	4046	4059	4028
50°	3704	3684	3680
55°	3292	3176	3270
60°	2870	2696	2852
65°	2433	2302	2421
70°	2012	1929	1993
75°	1627	1522	1563
80°	1175	1139	1131
85°	766	766	738



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.8	3.6
10°-20°	428.1	10.6
20°-30°	664.3	16.4
30°-40°	814.6	20.1
40°-50°	814.3	20.1
50°-60°	616.8	15.2
60°-70°	369.9	9.1
70°-80°	162.9	4.0
80°-90°	32.3	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°	1239.1	30.6
0°-40°	2053.8	50.7
0°-60°	3484.9	86.0
0°-90°	4050.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4050.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1543	1543	1543	1543	1543	
5°	1542	1540	1540	1540	1542	147
15°	1517	1516	1514	1514	1514	429
25°	1445	1442	1441	1439	1440	666
35°	1308	1308	1304	1303	1302	817
45°	1063	1065	1067	1064	1058	814
55°	702	686	677	686	697	629
65°	382	369	362	368	380	382
75°	156	153	146	149	150	167
85°	25	26	25	24	24	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1542.6	1542.6	1542.6	1542.6	1542.6
2.5°	1544.1	1541.7	1542.2	1542.2	1545.0
5°	1541.7	1539.8	1540.3	1539.8	1542.2
7.5°	1538.3	1536.4	1536.9	1536.4	1537.9
10°	1534.1	1532.1	1532.1	1531.2	1533.1
12.5°	1528.3	1525.9	1525.0	1524.5	1525.9
15°	1516.9	1515.5	1514.5	1513.5	1514.5
17.5°	1504.5	1502.1	1501.1	1499.2	1501.1
20°	1489.2	1485.9	1484.9	1483.5	1484.0
22.5°	1469.2	1466.3	1464.9	1462.5	1463.5
25°	1445.3	1442.5	1441.0	1438.7	1439.6
27.5°	1417.7	1415.8	1412.4	1410.5	1411.0
30°	1385.7	1383.8	1380.0	1379.0	1379.0
32.5°	1350.4	1348.0	1344.7	1343.7	1343.3
35°	1308.0	1307.5	1304.1	1303.2	1301.8
37.5°	1261.7	1260.7	1256.9	1256.0	1254.5
40°	1204.9	1204.0	1203.5	1201.6	1199.7
42.5°	1139.1	1140.5	1141.5	1137.7	1133.8
45°	1063.2	1064.7	1066.6	1063.7	1058.5
47.5°	974.5	980.2	977.4	979.3	974.0
50°	884.8	884.8	880.1	882.0	879.1
52.5°	790.9	783.2	777.5	781.3	785.2
55°	701.7	686.4	676.9	685.9	696.9
57.5°	616.3	598.2	580.5	594.8	608.2
60°	533.3	512.3	500.9	511.4	530.0
62.5°	454.6	439.3	427.9	436.0	451.7
65°	382.1	368.7	361.6	367.8	380.2
67.5°	315.8	306.7	299.6	304.8	314.3
70°	255.7	253.3	245.2	247.6	253.3
72.5°	200.8	200.3	193.2	195.1	198.4
75°	156.5	153.1	146.4	148.8	150.3
77.5°	110.7	112.1	105.9	107.3	107.3
80°	75.8	78.2	73.5	72.5	73.0
82.5°	48.2	48.2	47.7	47.2	45.8
85°	24.8	25.8	24.8	23.9	23.9
87.5°	9.5	9.5	9.5	9.1	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)