

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: P412398

Luminaire Tested: **22PD-45-PB1-L830**

Issue Date: 9/15/2020



**Test Information**

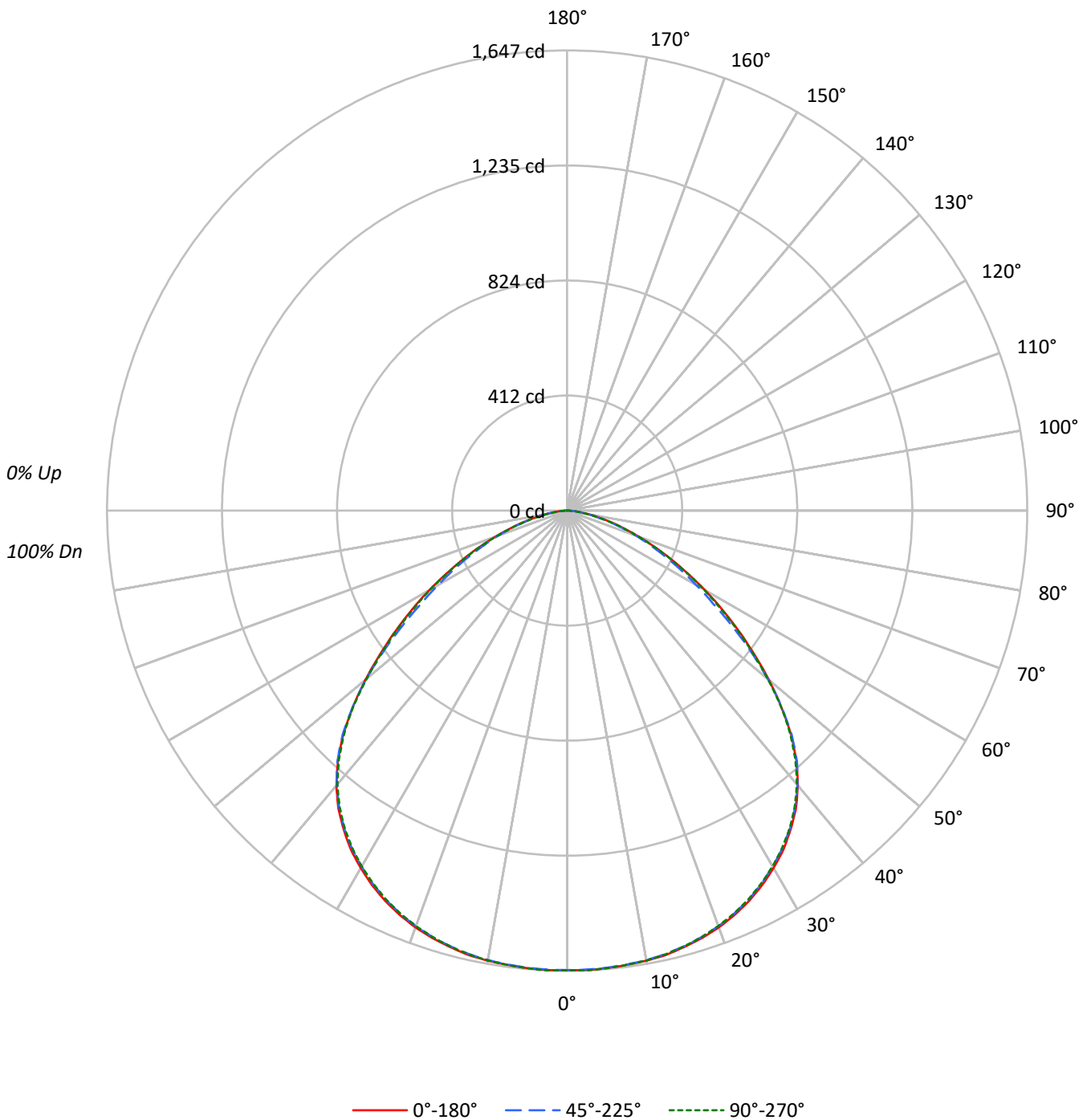
Test Method: LM-79-08  
Report Number: P412398  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-45-PB1-L830  
Description: 4500 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4318.0 lumens  
Efficiency: N/A  
Efficacy: 113.0 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°	4426	4426	4426
5°	4440	4436	4441
10°	4469	4464	4467
15°	4506	4498	4498
20°	4547	4534	4531
25°	4575	4562	4557
30°	4591	4572	4569
35°	4581	4568	4559
40°	4513	4507	4493
45°	4314	4328	4295
50°	3949	3928	3924
55°	3510	3386	3486
60°	3060	2874	3041
65°	2594	2455	2581
70°	2145	2057	2125
75°	1734	1623	1666
80°	1254	1213	1206
85°	815	815	784



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.5	3.6
10°-20°	456.4	10.6
20°-30°	708.2	16.4
30°-40°	868.5	20.1
40°-50°	868.2	20.1
50°-60°	657.6	15.2
60°-70°	394.4	9.1
70°-80°	173.7	4.0
80°-90°	34.5	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°	1321.1	30.6
0°-40°	2189.7	50.7
0°-60°	3715.5	86.0
0°-90°	4318.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4318.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1645	1645	1645	1645	1645	
5°	1644	1642	1642	1642	1644	157
15°	1617	1616	1615	1614	1615	457
25°	1541	1538	1536	1534	1535	710
35°	1394	1394	1390	1389	1388	871
45°	1134	1135	1137	1134	1128	868
55°	748	732	722	731	743	671
65°	407	393	386	392	405	407
75°	167	163	156	159	160	178
85°	26	28	26	25	25	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1644.7	1644.7	1644.7	1644.7	1644.7
2.5°	1646.2	1643.7	1644.2	1644.2	1647.3
5°	1643.7	1641.7	1642.2	1641.7	1644.2
7.5°	1640.1	1638.1	1638.6	1638.1	1639.6
10°	1635.6	1633.5	1633.5	1632.5	1634.6
12.5°	1629.5	1626.9	1625.9	1625.4	1626.9
15°	1617.3	1615.7	1614.7	1613.7	1614.7
17.5°	1604.0	1601.5	1600.5	1598.4	1600.5
20°	1587.8	1584.2	1583.2	1581.7	1582.2
22.5°	1566.4	1563.4	1561.8	1559.3	1560.3
25°	1541.0	1537.9	1536.4	1533.9	1534.9
27.5°	1511.5	1509.4	1505.9	1503.8	1504.4
30°	1477.4	1475.4	1471.3	1470.3	1470.3
32.5°	1439.8	1437.2	1433.7	1432.6	1432.1
35°	1394.5	1394.0	1390.4	1389.4	1387.9
37.5°	1345.2	1344.2	1340.1	1339.1	1337.5
40°	1284.7	1283.6	1283.1	1281.1	1279.1
42.5°	1214.5	1216.0	1217.0	1212.9	1208.9
45°	1133.6	1135.1	1137.2	1134.1	1128.5
47.5°	1039.0	1045.1	1042.1	1044.1	1038.5
50°	943.4	943.4	938.3	940.3	937.3
52.5°	843.2	835.1	829.0	833.0	837.1
55°	748.1	731.8	721.7	731.3	743.0
57.5°	657.1	637.7	618.9	634.2	648.4
60°	568.6	546.2	534.0	545.2	565.0
62.5°	484.7	468.4	456.2	464.8	481.6
65°	407.4	393.1	385.5	392.1	405.3
67.5°	336.7	327.0	319.4	325.0	335.1
70°	272.6	270.1	261.4	263.9	270.1
72.5°	214.1	213.6	206.0	208.0	211.6
75°	166.8	163.3	156.1	158.7	160.2
77.5°	118.0	119.5	112.9	114.4	114.4
80°	80.9	83.4	78.3	77.3	77.8
82.5°	51.4	51.4	50.9	50.3	48.8
85°	26.4	27.5	26.4	25.4	25.4
87.5°	10.2	10.2	10.2	9.7	9.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)