

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: P412740

Luminaire Tested: **22PD-45-PP3-L830**

Issue Date: 9/15/2020



**Test Information**

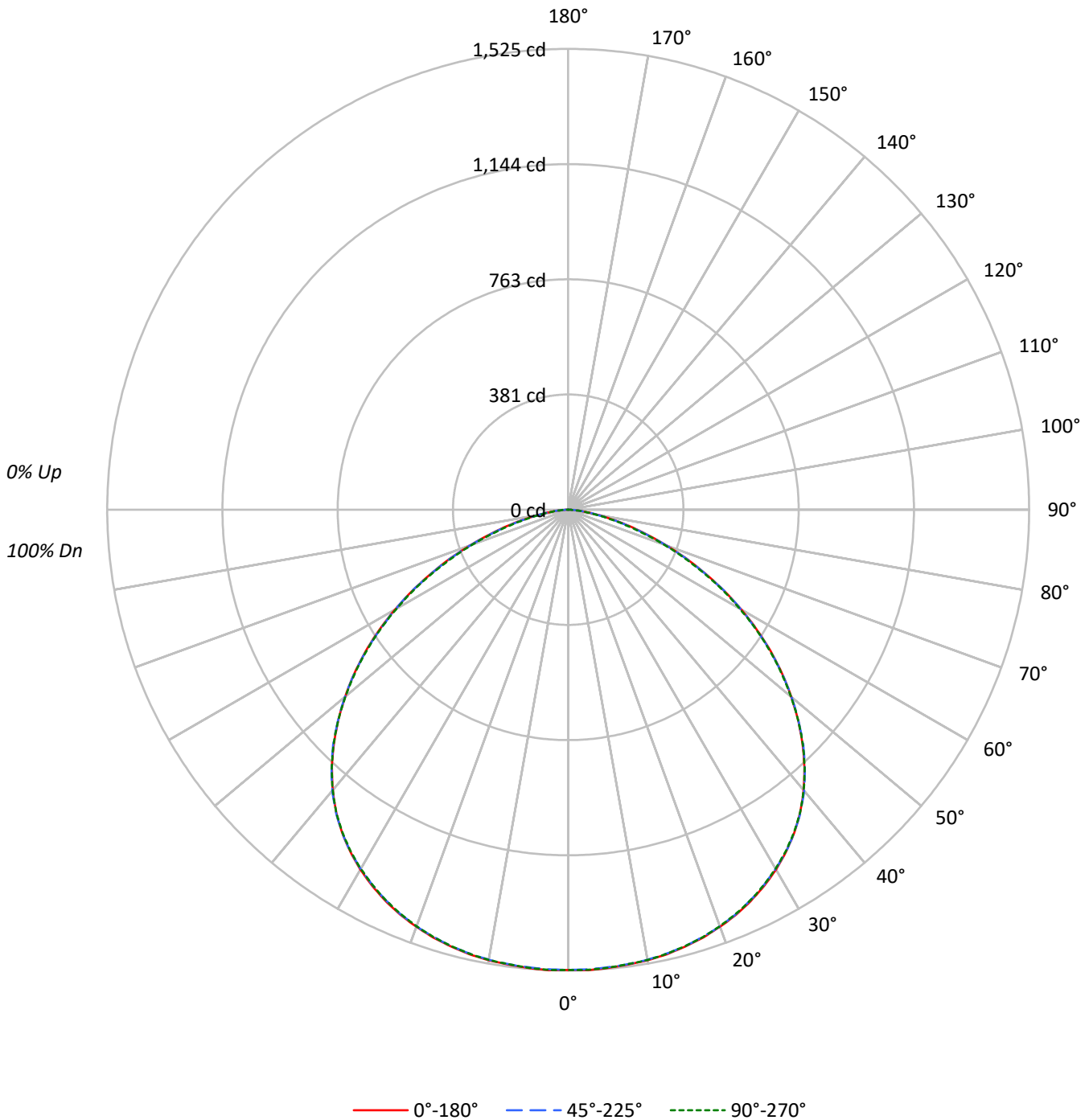
Test Method: LM-79-08  
Report Number: P412740  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-45-PP3-L830  
Description: 4500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4370.0 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.43  
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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	70	62	56	68	61	55	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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

	0°	45°	90°
0°	4099	4099	4099
5°	4112	4106	4109
10°	4137	4132	4134
15°	4170	4165	4165
20°	4206	4202	4200
25°	4243	4236	4236
30°	4273	4265	4263
35°	4285	4285	4280
40°	4257	4266	4257
45°	4173	4184	4179
50°	4032	4039	4028
55°	3839	3829	3822
60°	3563	3555	3528
65°	3183	3180	3144
70°	2721	2705	2645
75°	2168	2104	2041
80°	1545	1512	1435
85°	1003	1003	973



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.8	3.3
10°-20°	422.5	9.7
20°-30°	657.9	15.1
30°-40°	814.3	18.6
40°-50°	844.3	19.3
50°-60°	727.8	16.7
60°-70°	494.8	11.3
70°-80°	221.4	5.1
80°-90°	42.2	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°	1225.3	28.0
0°-40°	2039.5	46.7
0°-60°	3611.6	82.6
0°-90°	4370.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4370.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1523	1523	1523	1523	1523	
5°	1522	1519	1520	1520	1521	145
15°	1497	1494	1495	1494	1495	423
25°	1429	1427	1426	1426	1426	659
35°	1304	1303	1304	1302	1303	815
45°	1096	1095	1100	1097	1098	844
55°	818	815	816	815	815	730
65°	500	504	499	498	494	496
75°	208	209	202	201	196	224
85°	32	34	32	32	32	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1523.1	1523.1	1523.1	1523.1	1523.1
2.5°	1525.2	1522.1	1522.1	1522.6	1524.2
5°	1522.1	1519.1	1520.1	1519.6	1521.1
7.5°	1518.1	1515.5	1517.0	1516.0	1517.0
10°	1514.0	1511.4	1512.0	1511.4	1513.0
12.5°	1506.9	1503.8	1504.8	1504.8	1505.3
15°	1496.7	1494.2	1495.2	1494.2	1495.2
17.5°	1484.5	1481.4	1481.9	1481.4	1482.5
20°	1468.7	1466.7	1467.2	1466.2	1466.7
22.5°	1450.9	1448.4	1448.9	1447.9	1447.9
25°	1429.1	1427.0	1426.5	1426.0	1426.5
27.5°	1403.6	1401.1	1401.1	1400.6	1400.6
30°	1375.1	1372.6	1372.6	1372.1	1372.1
32.5°	1341.6	1340.6	1341.1	1340.1	1339.5
35°	1304.5	1302.9	1304.5	1302.4	1302.9
37.5°	1261.2	1259.2	1262.2	1260.2	1260.7
40°	1211.9	1210.9	1214.4	1212.9	1211.9
42.5°	1157.0	1157.0	1158.5	1159.0	1158.0
45°	1096.5	1095.4	1099.5	1097.0	1098.0
47.5°	1031.4	1029.8	1032.9	1032.4	1031.9
50°	963.2	962.2	964.7	962.2	962.2
52.5°	892.5	892.0	892.5	890.0	889.5
55°	818.3	815.2	816.2	814.7	814.7
57.5°	741.0	737.4	737.9	737.4	737.9
60°	662.1	661.1	660.6	658.1	655.5
62.5°	581.3	582.3	581.8	578.2	575.7
65°	499.9	504.0	499.4	497.9	493.8
67.5°	423.1	424.6	421.6	418.0	413.5
70°	345.8	348.9	343.8	340.2	336.2
72.5°	272.1	274.1	269.5	267.5	262.4
75°	208.5	209.0	202.4	201.4	196.3
77.5°	148.5	150.5	145.4	145.4	140.4
80°	99.7	103.2	97.6	96.1	92.6
82.5°	62.6	63.1	61.5	60.0	58.5
85°	32.5	33.6	32.5	31.5	31.5
87.5°	12.2	12.7	12.2	11.7	12.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)