

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: P412407

Luminaire Tested: **22PD-50-PB1-L830**

Issue Date: 9/15/2020



**Test Information**

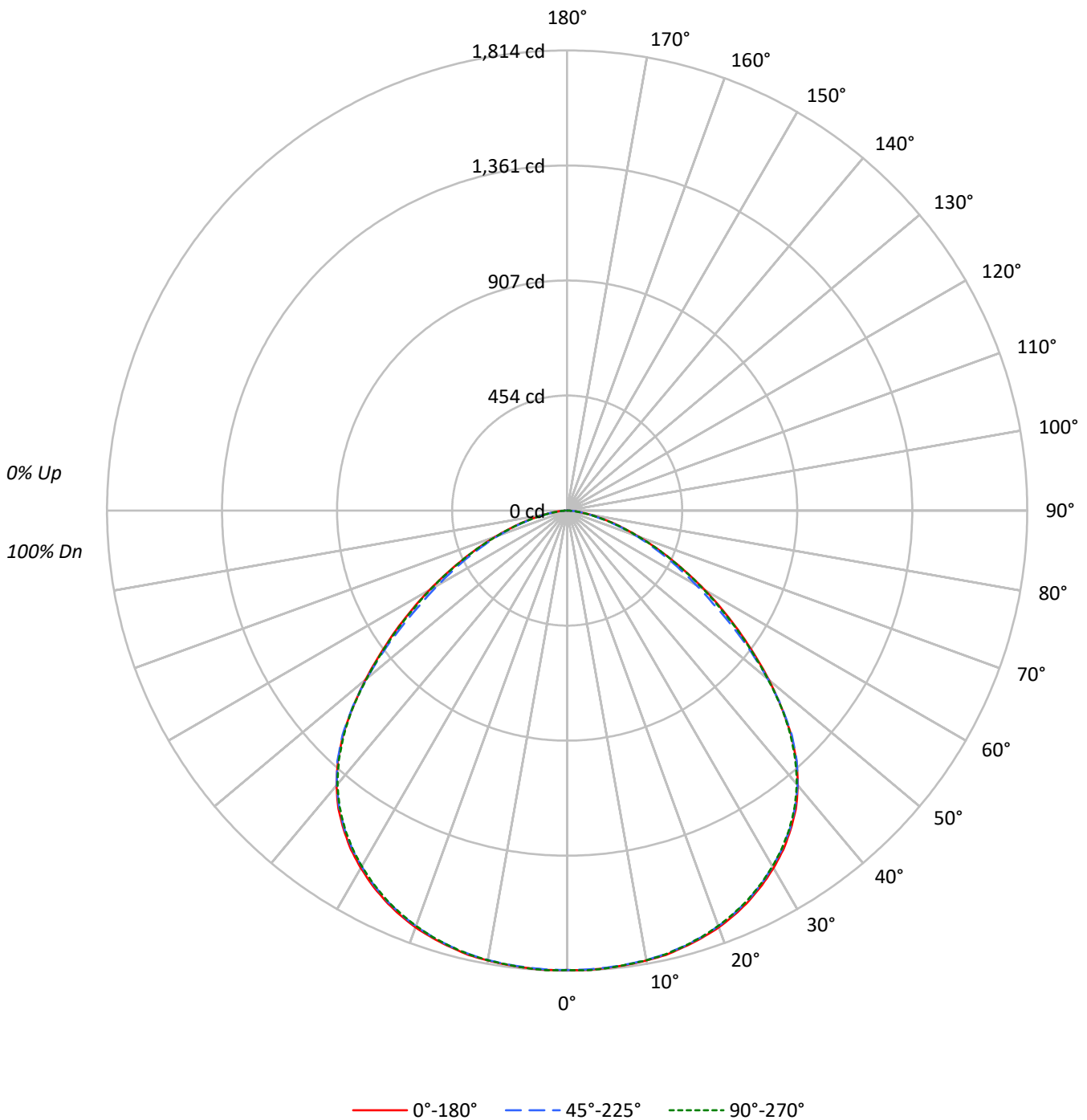
Test Method: LM-79-08  
Report Number: P412407  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-50-PB1-L830  
Description: 5000 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: 4755.0 lumens  
Efficiency: N/A  
Efficacy: 111.9 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 (A<sub>in</sub>): 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°	4874	4874	4874
5°	4890	4885	4891
10°	4921	4915	4918
15°	4961	4954	4954
20°	5007	4993	4989
25°	5038	5024	5018
30°	5055	5034	5031
35°	5045	5030	5021
40°	4970	4964	4948
45°	4751	4766	4729
50°	4349	4326	4321
55°	3865	3728	3839
60°	3370	3165	3349
65°	2856	2703	2842
70°	2362	2265	2340
75°	1910	1787	1834
80°	1379	1336	1328
85°	898	898	865



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.3	3.6
10°-20°	502.6	10.6
20°-30°	779.9	16.4
30°-40°	956.4	20.1
40°-50°	956.0	20.1
50°-60°	724.2	15.2
60°-70°	434.3	9.1
70°-80°	191.2	4.0
80°-90°	37.9	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°	1454.9	30.6
0°-40°	2411.3	50.7
0°-60°	4091.5	86.0
0°-90°	4755.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4755.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1811	1811	1811	1811	1811	
5°	1810	1808	1808	1808	1811	172
15°	1781	1779	1778	1777	1778	504
25°	1697	1694	1692	1689	1690	782
35°	1536	1535	1531	1530	1528	959
45°	1248	1250	1252	1249	1243	956
55°	824	806	795	805	818	739
65°	449	433	424	432	446	449
75°	184	180	172	175	176	196
85°	29	30	29	28	28	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1811.2	1811.2	1811.2	1811.2	1811.2
2.5°	1812.9	1810.1	1810.6	1810.6	1814.0
5°	1810.1	1807.8	1808.4	1807.8	1810.6
7.5°	1806.1	1803.9	1804.5	1803.9	1805.6
10°	1801.1	1798.9	1798.9	1797.7	1800.0
12.5°	1794.4	1791.6	1790.5	1789.9	1791.6
15°	1780.9	1779.3	1778.1	1777.0	1778.1
17.5°	1766.4	1763.6	1762.5	1760.2	1762.5
20°	1748.4	1744.5	1743.4	1741.7	1742.3
22.5°	1724.9	1721.6	1719.9	1717.1	1718.2
25°	1696.9	1693.6	1691.9	1689.1	1690.2
27.5°	1664.4	1662.2	1658.3	1656.0	1656.6
30°	1626.9	1624.7	1620.2	1619.1	1619.1
32.5°	1585.5	1582.7	1578.8	1577.6	1577.1
35°	1535.6	1535.1	1531.2	1530.0	1528.4
37.5°	1481.3	1480.2	1475.7	1474.6	1472.9
40°	1414.7	1413.5	1413.0	1410.7	1408.5
42.5°	1337.4	1339.1	1340.2	1335.7	1331.2
45°	1248.3	1250.0	1252.3	1248.9	1242.7
47.5°	1144.2	1150.9	1147.5	1149.8	1143.6
50°	1038.9	1038.9	1033.3	1035.5	1032.2
52.5°	928.5	919.6	912.9	917.3	921.8
55°	823.8	805.9	794.7	805.3	818.2
57.5°	723.6	702.3	681.6	698.4	714.1
60°	626.1	601.5	588.0	600.4	622.2
62.5°	533.7	515.8	502.4	511.9	530.4
65°	448.6	432.9	424.5	431.8	446.4
67.5°	370.7	360.1	351.7	357.9	369.1
70°	300.2	297.4	287.9	290.7	297.4
72.5°	235.8	235.2	226.8	229.1	233.0
75°	183.7	179.8	171.9	174.7	176.4
77.5°	129.9	131.6	124.3	126.0	126.0
80°	89.0	91.8	86.2	85.1	85.7
82.5°	56.6	56.6	56.0	55.4	53.8
85°	29.1	30.2	29.1	28.0	28.0
87.5°	11.2	11.2	11.2	10.6	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)