

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: P412866

Luminaire Tested: **24PD-50-PP3-L830**

Issue Date: 9/15/2020



**Test Information**

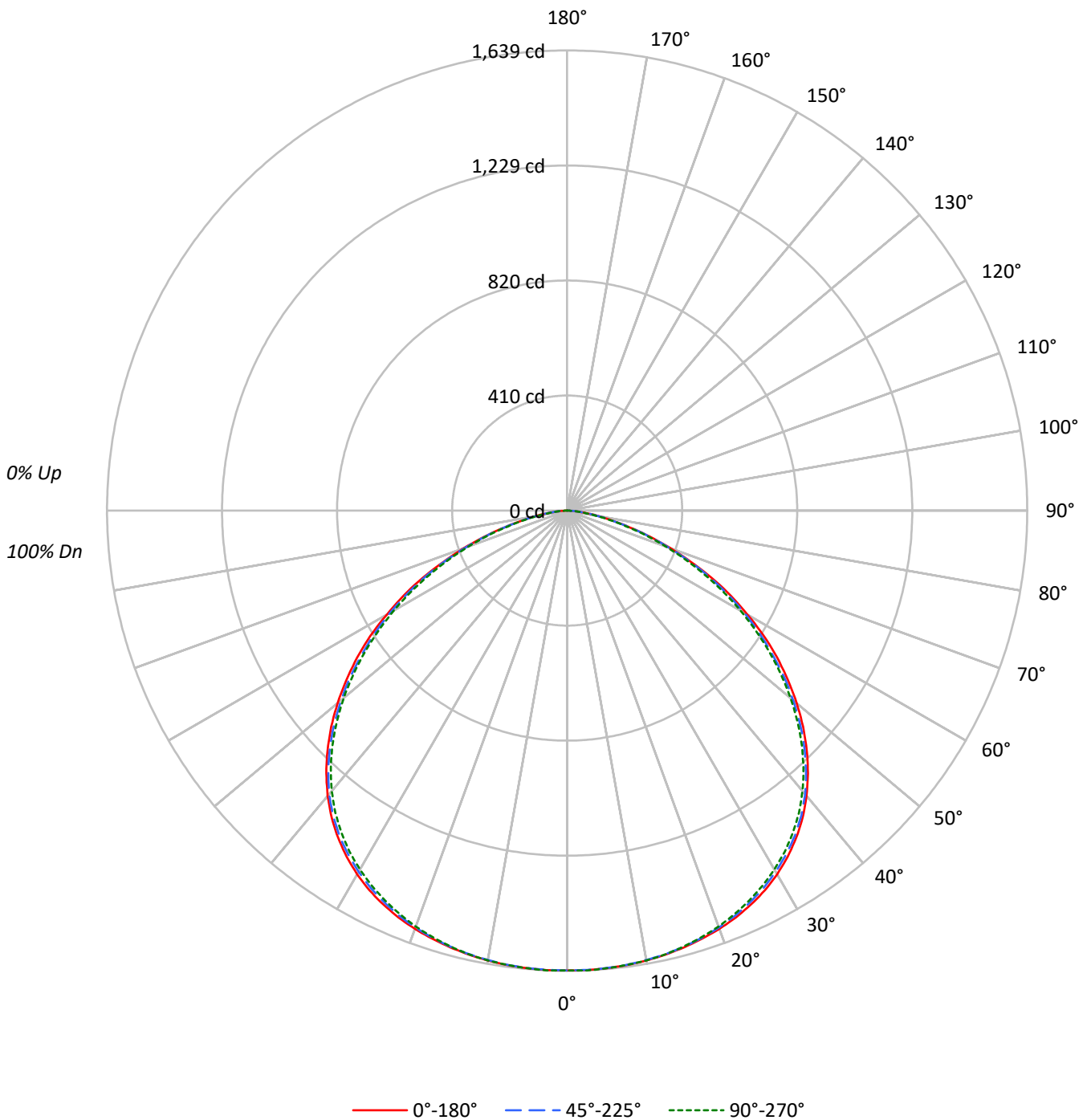
Test Method: LM-79-08  
Report Number: P412866  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-50-PP3-L830  
Description: 5000 LUMEN 2X4 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: 4766.0 lumens  
Efficiency: N/A  
Efficacy: 127.1 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 37.5  
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	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	86	81	77	83	79	75	80	77	74	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	63	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
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°	2204	2204	2204
5°	2210	2209	2210
10°	2224	2221	2223
15°	2243	2240	2238
20°	2270	2263	2257
25°	2299	2287	2276
30°	2324	2308	2293
35°	2337	2323	2302
40°	2331	2316	2291
45°	2297	2275	2249
50°	2234	2198	2175
55°	2142	2090	2064
60°	1996	1961	1921
65°	1809	1773	1721
70°	1544	1516	1467
75°	1206	1194	1136
80°	890	852	804
85°	537	537	500



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.8	3.3
10°-20°	454.7	9.5
20°-30°	710.8	14.9
30°-40°	883.3	18.5
40°-50°	920.4	19.3
50°-60°	798.6	16.8
60°-70°	549.1	11.5
70°-80°	247.8	5.2
80°-90°	45.4	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°	1321.3	27.7
0°-40°	2204.7	46.3
0°-60°	3923.6	82.3
0°-90°	4766.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4766.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1638	1638	1638	1638	1638	
5°	1636	1636	1636	1634	1636	156
15°	1610	1610	1608	1606	1607	455
25°	1548	1548	1540	1534	1533	714
35°	1423	1423	1414	1406	1401	889
45°	1207	1208	1196	1186	1182	929
55°	913	908	891	881	880	814
65°	568	566	557	543	541	561
75°	232	233	230	223	219	253
85°	35	34	35	34	32	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1637.9	1637.9	1637.9	1637.9	1637.9
2.5°	1638.4	1638.4	1637.5	1636.0	1639.4
5°	1636.0	1636.5	1635.6	1634.1	1636.5
7.5°	1632.7	1633.2	1631.7	1630.3	1632.2
10°	1627.5	1627.0	1625.6	1624.6	1627.0
12.5°	1619.8	1619.4	1617.9	1617.0	1618.9
15°	1610.3	1610.3	1607.9	1606.5	1607.0
17.5°	1598.9	1598.9	1595.5	1592.2	1593.2
20°	1585.5	1585.1	1580.3	1577.0	1576.5
22.5°	1568.9	1568.9	1562.2	1557.9	1556.5
25°	1548.4	1547.9	1540.3	1534.1	1533.2
27.5°	1525.1	1524.1	1515.1	1508.9	1506.5
30°	1496.0	1495.1	1485.5	1478.9	1476.0
32.5°	1461.7	1463.1	1452.2	1444.6	1441.7
35°	1422.7	1422.7	1414.1	1406.0	1401.2
37.5°	1377.9	1377.9	1369.8	1361.7	1356.0
40°	1326.9	1327.4	1318.8	1308.8	1304.1
42.5°	1269.8	1270.7	1259.3	1251.2	1246.0
45°	1207.4	1207.9	1195.5	1186.4	1182.1
47.5°	1139.7	1138.8	1125.0	1117.4	1113.1
50°	1067.3	1065.4	1050.2	1043.1	1039.2
52.5°	991.6	987.8	974.5	964.0	960.7
55°	913.0	907.8	891.1	880.6	879.7
57.5°	831.1	824.9	811.1	801.1	797.3
60°	741.6	740.1	728.7	716.8	713.9
62.5°	657.7	653.5	643.5	629.2	627.7
65°	568.2	565.8	556.8	543.4	540.6
67.5°	475.8	478.2	470.6	458.7	454.8
70°	392.5	393.9	385.3	374.4	372.9
72.5°	308.6	311.0	303.9	296.7	295.3
75°	231.9	232.9	229.6	223.4	218.6
77.5°	164.8	168.1	164.3	160.0	156.2
80°	114.8	109.5	110.0	108.1	103.8
82.5°	69.1	66.7	66.2	64.3	62.4
85°	34.8	34.3	34.8	34.3	32.4
87.5°	11.4	12.4	12.9	12.9	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)