

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: P412874

Luminaire Tested: **24PD-50-PP3-L950**

Issue Date: 9/15/2020



**Test Information**

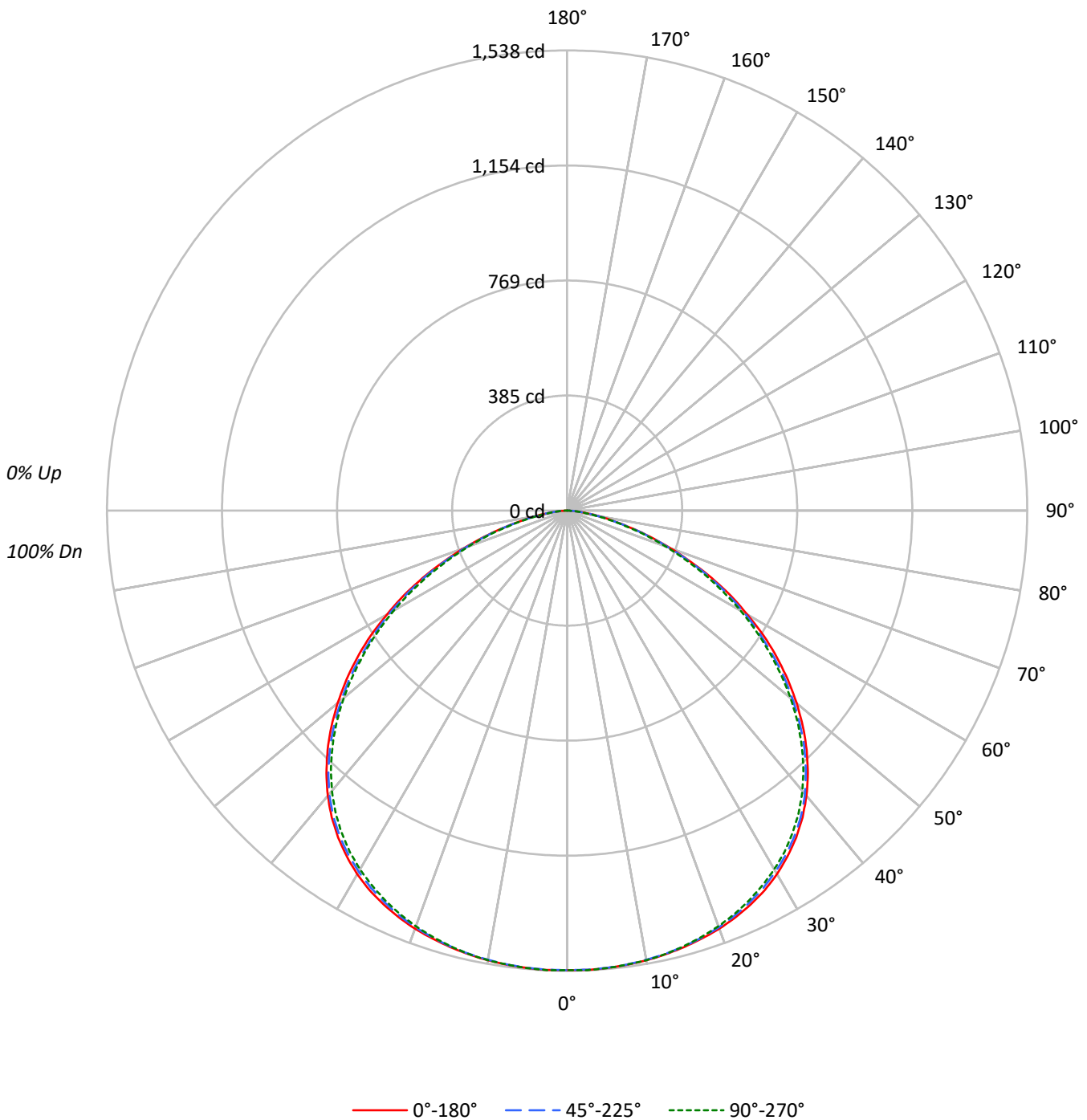
Test Method: LM-79-08  
Report Number: P412874  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-50-PP3-L950  
Description: 5000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4470.0 lumens  
Efficiency: N/A  
Efficacy: 119.2 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 (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	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°	2067	2067	2067
5°	2072	2072	2073
10°	2085	2083	2085
15°	2104	2101	2099
20°	2129	2122	2117
25°	2156	2145	2135
30°	2180	2165	2151
35°	2192	2178	2159
40°	2186	2173	2148
45°	2155	2133	2110
50°	2096	2062	2040
55°	2009	1961	1936
60°	1872	1839	1802
65°	1697	1663	1614
70°	1448	1422	1376
75°	1131	1119	1066
80°	834	800	755
85°	503	503	469



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.2	3.3
10°-20°	426.5	9.5
20°-30°	666.6	14.9
30°-40°	828.5	18.5
40°-50°	863.2	19.3
50°-60°	749.0	16.8
60°-70°	515.0	11.5
70°-80°	232.4	5.2
80°-90°	42.6	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°	1239.2	27.7
0°-40°	2067.7	46.3
0°-60°	3680.0	82.3
0°-90°	4470.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4470.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1536	1536	1536	1536	1536	
5°	1534	1535	1534	1533	1535	146
15°	1510	1510	1508	1507	1507	427
25°	1452	1452	1445	1439	1438	670
35°	1334	1334	1326	1319	1314	834
45°	1132	1133	1121	1113	1109	872
55°	856	851	836	826	825	763
65°	533	531	522	510	507	526
75°	218	218	215	210	205	237
85°	33	32	33	32	30	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1536.2	1536.2	1536.2	1536.2	1536.2
2.5°	1536.7	1536.7	1535.8	1534.4	1537.5
5°	1534.4	1534.9	1534.0	1532.6	1534.9
7.5°	1531.3	1531.7	1530.4	1529.1	1530.8
10°	1526.4	1525.9	1524.6	1523.7	1525.9
12.5°	1519.2	1518.8	1517.4	1516.6	1518.3
15°	1510.3	1510.3	1508.1	1506.7	1507.2
17.5°	1499.6	1499.6	1496.5	1493.3	1494.2
20°	1487.1	1486.6	1482.2	1479.0	1478.6
22.5°	1471.4	1471.4	1465.2	1461.2	1459.8
25°	1452.2	1451.8	1444.6	1438.8	1437.9
27.5°	1430.3	1429.4	1421.0	1415.2	1412.9
30°	1403.1	1402.2	1393.3	1387.0	1384.3
32.5°	1370.9	1372.3	1362.0	1354.8	1352.2
35°	1334.3	1334.3	1326.3	1318.7	1314.2
37.5°	1292.3	1292.3	1284.7	1277.1	1271.8
40°	1244.5	1245.0	1236.9	1227.5	1223.1
42.5°	1190.9	1191.8	1181.1	1173.5	1168.6
45°	1132.4	1132.8	1121.2	1112.7	1108.7
47.5°	1069.0	1068.1	1055.1	1048.0	1043.9
50°	1001.1	999.3	985.0	978.3	974.7
52.5°	930.0	926.5	914.0	904.1	901.0
55°	856.3	851.4	835.8	826.0	825.1
57.5°	779.5	773.7	760.7	751.4	747.8
60°	695.5	694.2	683.5	672.3	669.6
62.5°	616.9	612.9	603.5	590.1	588.8
65°	532.9	530.7	522.2	509.7	507.0
67.5°	446.3	448.5	441.3	430.2	426.6
70°	368.1	369.4	361.4	351.1	349.8
72.5°	289.5	291.7	285.0	278.3	277.0
75°	217.5	218.4	215.3	209.5	205.0
77.5°	154.6	157.7	154.1	150.1	146.5
80°	107.7	102.7	103.2	101.4	97.4
82.5°	64.8	62.5	62.1	60.3	58.5
85°	32.6	32.2	32.6	32.2	30.4
87.5°	10.7	11.6	12.1	12.1	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)