

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: P413214

Luminaire Tested: **24PD-50-PC3-L935**

Issue Date: 9/15/2020



**Test Information**

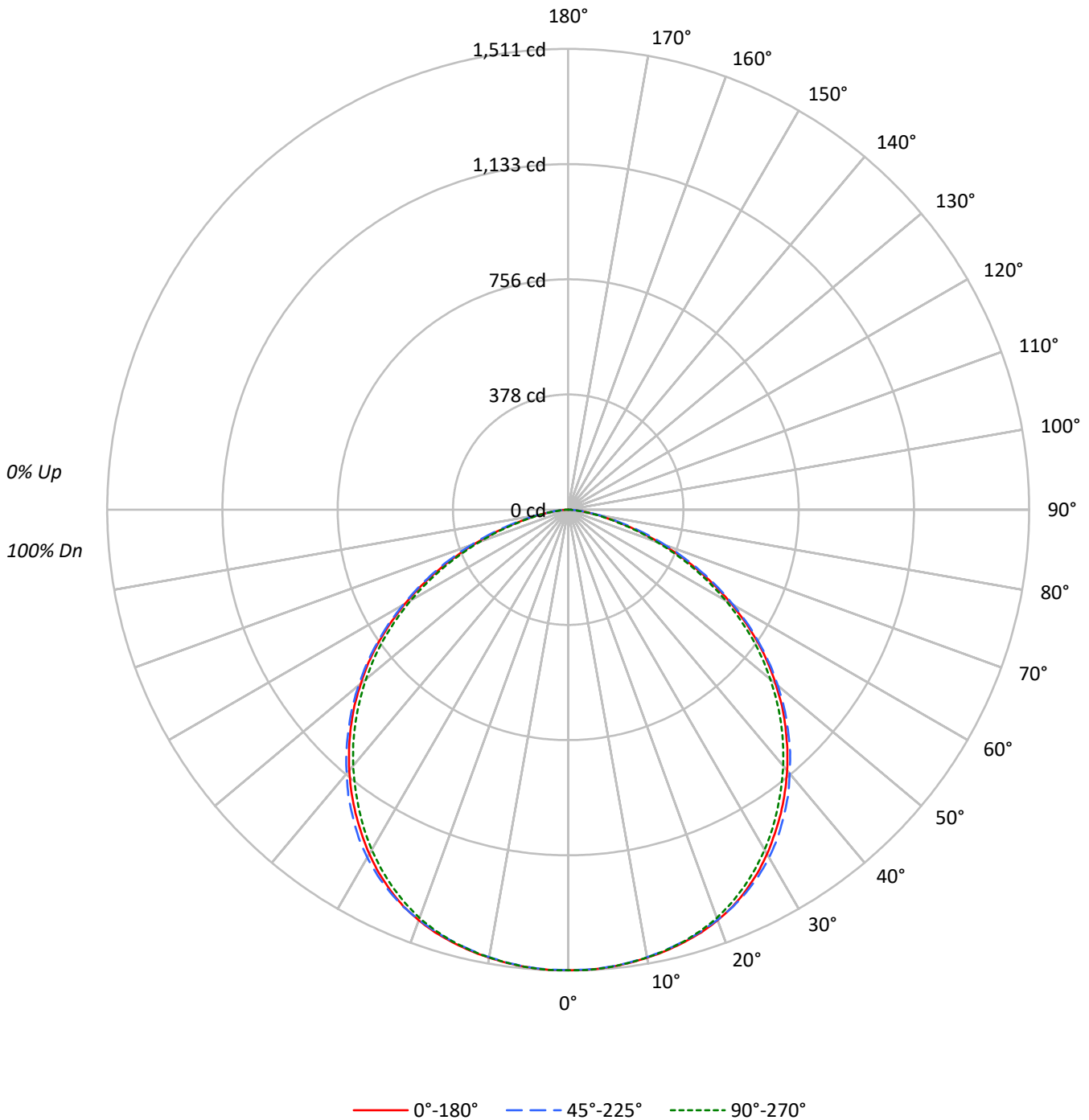
Test Method: LM-79-08  
Report Number: P413214  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-50-PC3-L935  
Description: 5000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4127.0 lumens  
Efficiency: N/A  
Efficacy: 110.1 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.38  
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	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	2032	2032	2032
5°	2034	2033	2035
10°	2038	2035	2037
15°	2045	2041	2041
20°	2052	2049	2040
25°	2046	2053	2025
30°	2025	2047	2000
35°	1996	2021	1965
40°	1961	1984	1925
45°	1916	1937	1877
50°	1857	1878	1811
55°	1781	1796	1728
60°	1662	1682	1605
65°	1498	1535	1439
70°	1272	1328	1221
75°	985	1057	939
80°	732	765	664
85°	452	485	420



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.2	3.5
10°-20°	414.1	10.0
20°-30°	634.1	15.4
30°-40°	762.8	18.5
40°-50°	777.9	18.8
50°-60°	674.4	16.3
60°-70°	467.5	11.3
70°-80°	213.5	5.2
80°-90°	39.4	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°	1191.4	28.9
0°-40°	1954.2	47.4
0°-60°	3406.5	82.5
0°-90°	4127.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4127.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1510	1510	1510	1510	1510	
5°	1506	1506	1505	1504	1506	143
15°	1468	1468	1465	1464	1466	415
25°	1378	1382	1383	1371	1364	635
35°	1215	1228	1230	1215	1197	760
45°	1007	1020	1018	1004	986	776
55°	759	764	766	747	736	676
65°	470	481	482	466	452	465
75°	190	200	203	197	181	207
85°	29	30	31	30	27	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1509.9	1509.9	1509.9	1509.9	1509.9
2.5°	1509.9	1509.9	1509.0	1508.2	1510.7
5°	1506.1	1506.1	1505.3	1504.4	1506.5
7.5°	1500.2	1499.8	1499.0	1498.2	1499.4
10°	1491.9	1491.5	1489.8	1489.4	1491.0
12.5°	1481.4	1481.0	1478.5	1478.5	1479.8
15°	1468.0	1467.6	1465.1	1463.9	1465.5
17.5°	1453.0	1452.6	1449.6	1446.3	1447.1
20°	1432.9	1432.9	1430.8	1425.8	1424.5
22.5°	1408.7	1409.9	1409.9	1400.3	1396.5
25°	1378.1	1381.9	1383.1	1371.0	1363.9
27.5°	1343.4	1349.3	1352.6	1337.1	1327.9
30°	1303.7	1313.3	1317.5	1300.7	1287.4
32.5°	1260.2	1272.3	1277.3	1261.0	1243.9
35°	1215.0	1228.0	1230.5	1214.6	1196.6
37.5°	1166.9	1180.3	1183.6	1169.4	1147.2
40°	1116.3	1129.7	1129.7	1118.0	1096.2
42.5°	1062.8	1077.0	1076.6	1062.3	1042.7
45°	1007.1	1019.7	1018.0	1004.2	986.2
47.5°	949.8	957.8	959.9	943.6	926.4
50°	887.1	895.0	897.1	878.7	865.4
52.5°	825.2	830.2	833.1	811.8	802.2
55°	759.1	763.7	765.8	747.0	736.5
57.5°	689.3	695.1	697.6	678.8	667.1
60°	617.7	624.0	624.9	607.3	596.4
62.5°	545.0	553.3	555.0	537.4	524.5
65°	470.5	480.6	482.2	465.9	452.1
67.5°	396.1	409.5	409.9	396.5	380.2
70°	323.3	337.9	337.5	326.2	310.3
72.5°	253.9	267.3	270.2	259.7	244.3
75°	189.5	199.9	203.3	196.6	180.7
77.5°	134.7	144.3	147.2	140.9	129.2
80°	94.5	94.9	98.7	93.7	85.7
82.5°	58.6	57.7	59.0	56.9	52.3
85°	29.3	30.1	31.4	29.7	27.2
87.5°	10.0	10.5	11.3	11.3	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)