

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: P412863

Luminaire Tested: **24PD-45-PP3-L935**

Issue Date: 9/15/2020



**Test Information**

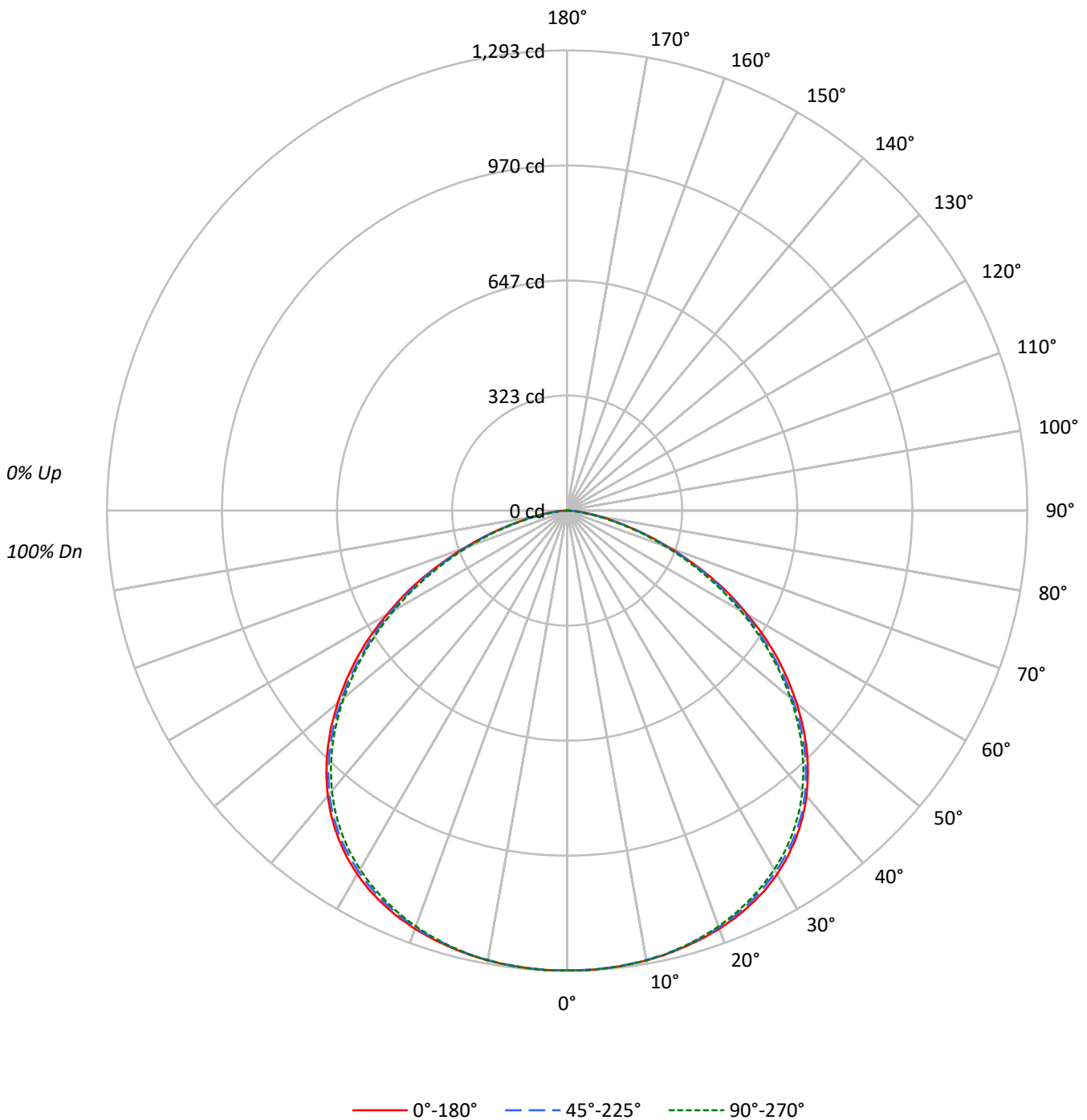
Test Method: LM-79-08  
Report Number: P412863  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-45-PP3-L935  
Description: 4500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3759.0 lumens  
Efficiency: N/A  
Efficacy: 112.5 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): 33.4  
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°	1738	1738	1738
5°	1743	1742	1743
10°	1754	1752	1753
15°	1769	1767	1765
20°	1791	1785	1780
25°	1813	1804	1795
30°	1833	1820	1809
35°	1843	1832	1815
40°	1838	1827	1806
45°	1812	1794	1774
50°	1762	1734	1716
55°	1689	1649	1628
60°	1574	1547	1515
65°	1427	1398	1358
70°	1218	1196	1157
75°	951	941	896
80°	701	673	635
85°	423	423	394



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.9	3.3
10°-20°	358.6	9.5
20°-30°	560.6	14.9
30°-40°	696.7	18.5
40°-50°	725.9	19.3
50°-60°	629.9	16.8
60°-70°	433.1	11.5
70°-80°	195.5	5.2
80°-90°	35.8	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°	1042.1	27.7
0°-40°	1738.8	46.3
0°-60°	3094.6	82.3
0°-90°	3759.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3759.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1292	1292	1292	1292	1292	
5°	1290	1291	1290	1289	1291	123
15°	1270	1270	1268	1267	1267	359
25°	1221	1221	1215	1210	1209	563
35°	1122	1122	1115	1109	1105	701
45°	952	953	943	936	932	733
55°	720	716	703	695	694	642
65°	448	446	439	429	426	442
75°	183	184	181	176	172	199
85°	27	27	27	27	26	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1291.9	1291.9	1291.9	1291.9	1291.9
2.5°	1292.2	1292.2	1291.5	1290.4	1293.0
5°	1290.4	1290.7	1290.0	1288.9	1290.7
7.5°	1287.7	1288.1	1287.0	1285.8	1287.4
10°	1283.6	1283.2	1282.1	1281.3	1283.2
12.5°	1277.6	1277.2	1276.1	1275.3	1276.8
15°	1270.1	1270.1	1268.2	1267.1	1267.4
17.5°	1261.1	1261.1	1258.4	1255.8	1256.5
20°	1250.5	1250.2	1246.4	1243.8	1243.4
22.5°	1237.4	1237.4	1232.1	1228.7	1227.6
25°	1221.2	1220.9	1214.9	1210.0	1209.2
27.5°	1202.8	1202.1	1194.9	1190.1	1188.2
30°	1179.9	1179.2	1171.7	1166.4	1164.1
32.5°	1152.9	1154.0	1145.4	1139.3	1137.1
35°	1122.1	1122.1	1115.3	1108.9	1105.2
37.5°	1086.8	1086.8	1080.4	1074.0	1069.5
40°	1046.6	1046.9	1040.2	1032.3	1028.5
42.5°	1001.5	1002.2	993.2	986.8	982.7
45°	952.3	952.6	942.9	935.7	932.4
47.5°	898.9	898.2	887.3	881.3	877.9
50°	841.8	840.3	828.3	822.7	819.7
52.5°	782.1	779.1	768.6	760.3	757.7
55°	720.1	716.0	702.8	694.6	693.8
57.5°	655.5	650.6	639.7	631.8	628.8
60°	584.9	583.8	574.7	565.4	563.1
62.5°	518.8	515.4	507.5	496.2	495.1
65°	448.1	446.3	439.1	428.6	426.4
67.5°	375.3	377.2	371.1	361.8	358.7
70°	309.5	310.7	303.9	295.3	294.1
72.5°	243.4	245.3	239.7	234.0	232.9
75°	182.9	183.7	181.1	176.2	172.4
77.5°	130.0	132.6	129.6	126.2	123.2
80°	90.5	86.4	86.8	85.3	81.9
82.5°	54.5	52.6	52.2	50.7	49.2
85°	27.4	27.0	27.4	27.0	25.5
87.5°	9.0	9.8	10.1	10.1	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)