

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: P412861

Luminaire Tested: **24PD-45-PP3-L927**

Issue Date: 9/15/2020



**Test Information**

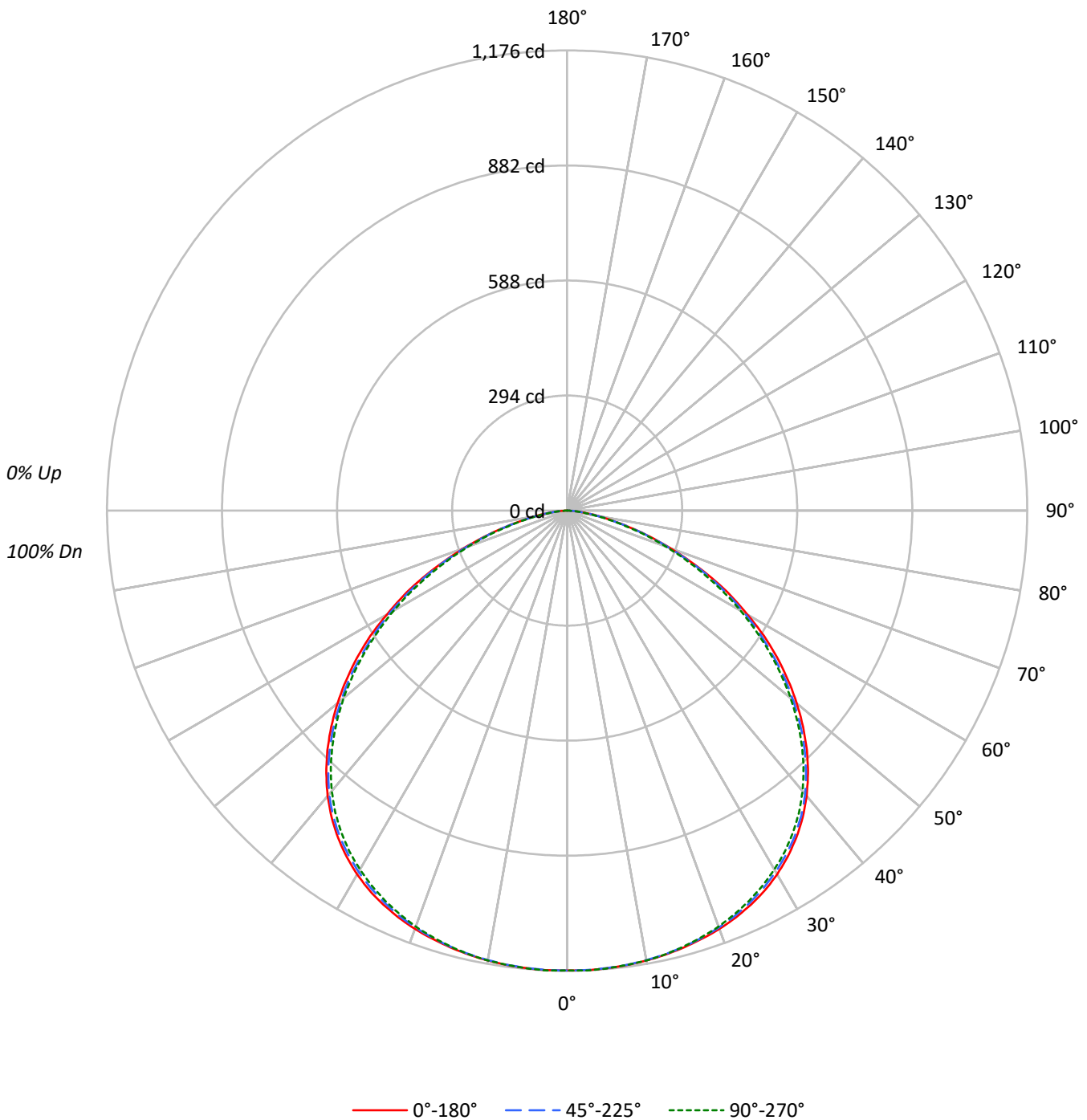
Test Method: LM-79-08  
Report Number: P412861  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-45-PP3-L927  
Description: 4500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3420.0 lumens  
Efficiency: N/A  
Efficacy: 102.4 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°	1581	1581	1581
5°	1586	1585	1586
10°	1596	1594	1595
15°	1610	1607	1606
20°	1629	1624	1620
25°	1650	1641	1633
30°	1668	1656	1646
35°	1677	1667	1652
40°	1672	1662	1644
45°	1649	1632	1614
50°	1603	1577	1561
55°	1537	1500	1481
60°	1432	1407	1379
65°	1298	1272	1235
70°	1108	1088	1053
75°	865	856	816
80°	638	611	577
85°	384	384	358



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.8	3.3
10°-20°	326.3	9.5
20°-30°	510.0	14.9
30°-40°	633.9	18.5
40°-50°	660.4	19.3
50°-60°	573.1	16.8
60°-70°	394.0	11.5
70°-80°	177.8	5.2
80°-90°	32.6	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°	948.1	27.7
0°-40°	1582.0	46.3
0°-60°	2815.5	82.3
0°-90°	3420.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3420.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1175	1175	1175	1175	1175	
5°	1174	1174	1174	1173	1174	112
15°	1156	1156	1154	1153	1153	327
25°	1111	1111	1105	1101	1100	513
35°	1021	1021	1015	1009	1006	638
45°	866	867	858	851	848	667
55°	655	651	640	632	631	584
65°	408	406	400	390	388	402
75°	166	167	165	160	157	181
85°	25	25	25	25	23	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1175.4	1175.4	1175.4	1175.4	1175.4
2.5°	1175.7	1175.7	1175.0	1174.0	1176.4
5°	1174.0	1174.3	1173.6	1172.6	1174.3
7.5°	1171.6	1171.9	1170.9	1169.9	1171.3
10°	1167.8	1167.5	1166.5	1165.8	1167.5
12.5°	1162.4	1162.0	1161.0	1160.3	1161.7
15°	1155.5	1155.5	1153.8	1152.8	1153.1
17.5°	1147.3	1147.3	1144.9	1142.5	1143.2
20°	1137.8	1137.4	1134.0	1131.6	1131.3
22.5°	1125.8	1125.8	1121.0	1117.9	1116.9
25°	1111.1	1110.8	1105.3	1100.8	1100.2
27.5°	1094.4	1093.7	1087.2	1082.7	1081.0
30°	1073.5	1072.8	1066.0	1061.2	1059.2
32.5°	1048.9	1049.9	1042.1	1036.6	1034.5
35°	1020.9	1020.9	1014.7	1008.9	1005.5
37.5°	988.7	988.7	982.9	977.1	973.0
40°	952.2	952.5	946.4	939.2	935.8
42.5°	911.2	911.8	903.6	897.8	894.1
45°	866.4	866.7	857.8	851.4	848.3
47.5°	817.9	817.2	807.3	801.8	798.7
50°	765.9	764.5	753.6	748.5	745.7
52.5°	711.6	708.8	699.3	691.7	689.4
55°	655.2	651.4	639.5	631.9	631.3
57.5°	596.4	591.9	582.0	574.9	572.1
60°	532.1	531.1	522.9	514.4	512.3
62.5°	472.0	468.9	461.7	451.5	450.5
65°	407.7	406.0	399.5	390.0	387.9
67.5°	341.4	343.1	337.7	329.1	326.4
70°	281.6	282.6	276.5	268.6	267.6
72.5°	221.5	223.2	218.1	212.9	211.9
75°	166.4	167.1	164.7	160.3	156.9
77.5°	118.3	120.6	117.9	114.8	112.1
80°	82.4	78.6	78.9	77.6	74.5
82.5°	49.6	47.8	47.5	46.1	44.8
85°	24.9	24.6	24.9	24.6	23.2
87.5°	8.2	8.9	9.2	9.2	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)