

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: P412519

Luminaire Tested: **24PD-45-PB1-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412519
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-45-PB1-L927
Description: 4500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

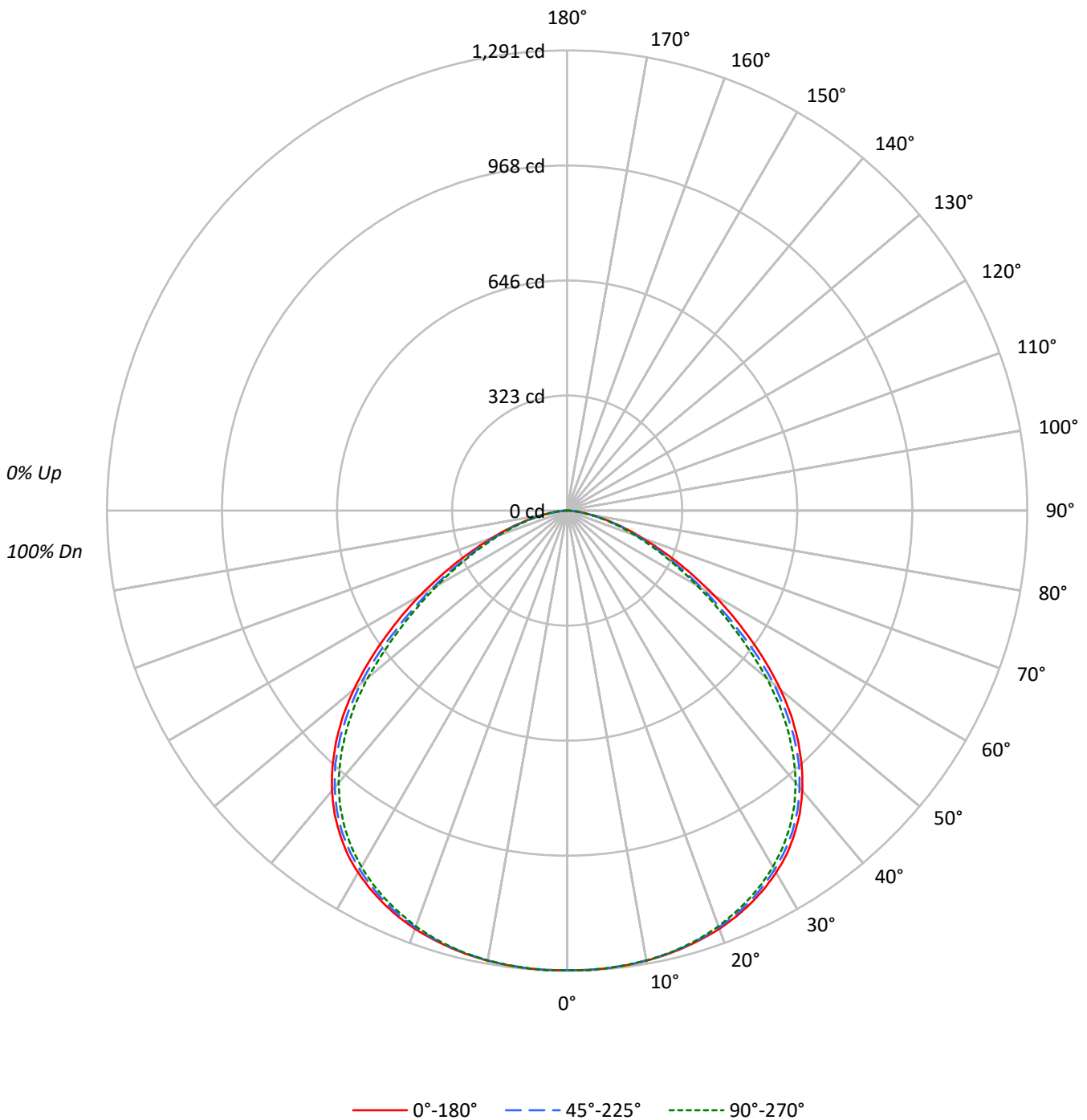
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3431.0 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.32 / 1.41
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

TEST NUMBER: P412519
CATALOG NUMBER: 24PD-45-PB1-L927

Luminous Intensity Polar Plot





TEST NUMBER: P412519

CATALOG NUMBER: 24PD-45-PB1-L927

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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	70	59	51	45	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1735	1735	1735
5°	1741	1741	1741
10°	1752	1750	1751
15°	1768	1766	1764
20°	1788	1782	1777
25°	1807	1798	1787
30°	1822	1807	1794
35°	1824	1809	1786
40°	1803	1782	1752
45°	1745	1713	1669
50°	1636	1585	1527
55°	1470	1383	1326
60°	1280	1178	1133
65°	1077	996	953
70°	878	834	800
75°	703	678	650
80°	540	497	484
85°	338	327	327



TEST NUMBER: P412519

CATALOG NUMBER: 24PD-45-PB1-L927

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.8	3.6
10°-20°	358.3	10.4
20°-30°	558.2	16.3
30°-40°	686.7	20.0
40°-50°	689.8	20.1
50°-60°	531.6	15.5
60°-70°	315.6	9.2
70°-80°	140.5	4.1
80°-90°	27.4	0.8
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°	1039.3	30.3
0°-40°	1726.0	50.3
0°-60°	2947.4	85.9
0°-90°	3431.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3431.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1289	1289	1289	1289	1289	
5°	1289	1289	1289	1287	1289	123
15°	1269	1269	1268	1266	1266	359
25°	1217	1217	1211	1205	1204	561
35°	1111	1109	1101	1092	1087	694
45°	917	914	900	885	877	704
55°	627	615	590	572	565	561
65°	338	324	313	301	299	338
75°	135	133	130	126	125	147
85°	22	21	21	20	21	29
90°	0	0	0	0	0	



TEST NUMBER: P412519

CATALOG NUMBER: 24PD-45-PB1-L927

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1289.4	1289.4	1289.4	1289.4	1289.4
2.5°	1290.1	1289.8	1289.8	1288.4	1291.1
5°	1288.7	1289.1	1288.7	1287.4	1288.7
7.5°	1286.0	1286.3	1285.7	1284.3	1285.7
10°	1282.6	1282.6	1281.2	1280.5	1281.6
12.5°	1276.8	1276.8	1275.4	1274.4	1275.4
15°	1269.3	1269.3	1267.5	1265.5	1266.5
17.5°	1260.0	1260.0	1257.3	1254.6	1255.2
20°	1248.7	1248.4	1244.6	1240.9	1241.2
22.5°	1234.4	1234.1	1229.3	1224.8	1223.5
25°	1217.0	1216.6	1210.8	1205.3	1204.0
27.5°	1196.8	1195.4	1188.9	1182.8	1181.4
30°	1172.9	1171.9	1163.3	1157.2	1154.4
32.5°	1145.2	1142.5	1134.6	1127.1	1123.3
35°	1110.7	1109.0	1101.1	1091.9	1087.4
37.5°	1071.7	1070.0	1061.5	1051.2	1046.1
40°	1026.6	1025.2	1014.6	1004.1	997.6
42.5°	974.7	973.6	962.4	947.7	940.8
45°	916.9	914.5	900.2	885.1	876.9
47.5°	852.7	848.6	831.1	816.8	807.9
50°	781.6	776.1	757.3	738.9	729.6
52.5°	704.7	695.1	675.6	654.4	645.6
55°	626.8	614.8	589.5	571.7	565.3
57.5°	550.6	533.1	509.2	496.6	490.1
60°	475.7	456.6	437.8	425.5	421.0
62.5°	404.3	388.2	372.2	359.9	357.1
65°	338.3	323.6	313.0	301.1	299.4
67.5°	276.8	270.0	260.4	250.2	248.8
70°	223.2	220.4	211.9	205.7	203.3
72.5°	178.1	175.3	169.2	164.7	164.0
75°	135.3	132.6	130.5	126.1	125.1
77.5°	96.4	96.7	95.0	92.6	93.3
80°	69.7	65.6	64.2	62.9	62.5
82.5°	42.7	40.3	39.3	39.0	39.6
85°	21.9	20.8	21.2	20.2	21.2
87.5°	7.5	7.5	7.9	7.5	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)