

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: P413203

Luminaire Tested: **24PD-45-PC3-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413203
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-45-PC3-L927
Description: 4500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

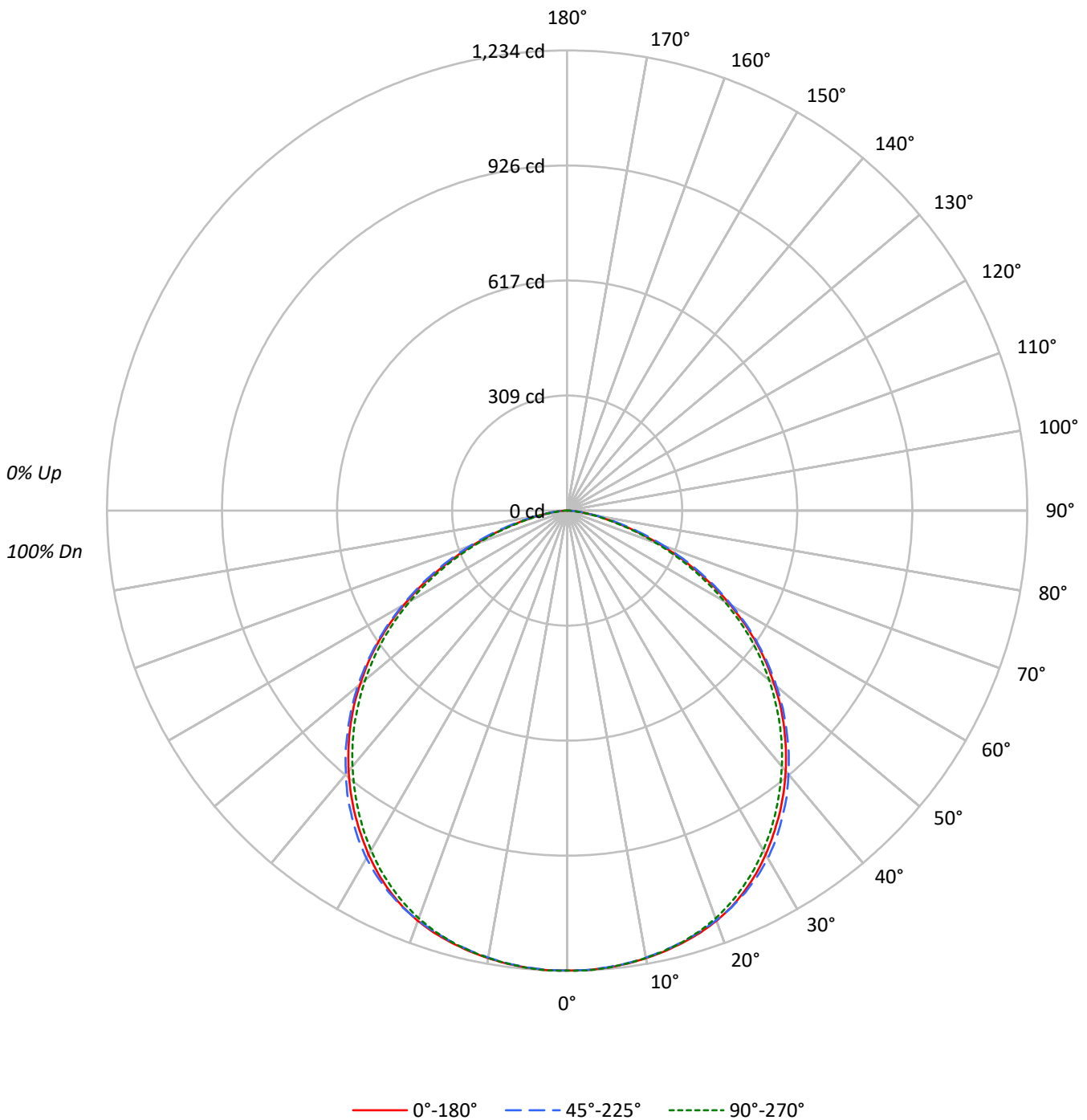
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3372.0 lumens
Efficiency: N/A
Efficacy: 101.0 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): 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: P413203
CATALOG NUMBER: 24PD-45-PC3-L927

Luminous Intensity Polar Plot





TEST NUMBER: P413203

CATALOG NUMBER: 24PD-45-PC3-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	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°	1660	1660	1660
5°	1662	1661	1662
10°	1665	1663	1664
15°	1671	1668	1668
20°	1676	1674	1667
25°	1672	1678	1654
30°	1655	1672	1634
35°	1631	1651	1606
40°	1602	1621	1573
45°	1566	1583	1533
50°	1517	1534	1480
55°	1455	1468	1412
60°	1358	1374	1311
65°	1224	1254	1176
70°	1039	1085	998
75°	805	863	767
80°	598	625	543
85°	369	395	343



TEST NUMBER: P413203

CATALOG NUMBER: 24PD-45-PC3-L927

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.0	3.5
10°-20°	338.3	10.0
20°-30°	518.1	15.4
30°-40°	623.3	18.5
40°-50°	635.6	18.8
50°-60°	551.0	16.3
60°-70°	382.0	11.3
70°-80°	174.5	5.2
80°-90°	32.2	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°	973.4	28.9
0°-40°	1596.7	47.4
0°-60°	2783.3	82.5
0°-90°	3372.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3372.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1234	1234	1234	1234	1234	
5°	1231	1231	1230	1229	1231	117
15°	1200	1199	1197	1196	1197	339
25°	1126	1129	1130	1120	1114	518
35°	993	1003	1005	992	978	621
45°	823	833	832	820	806	634
55°	620	624	626	610	602	553
65°	384	393	394	381	369	380
75°	155	163	166	161	148	169
85°	24	25	26	24	22	32
90°	0	0	0	0	0	



TEST NUMBER: P413203

CATALOG NUMBER: 24PD-45-PC3-L927

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1233.6	1233.6	1233.6	1233.6	1233.6
2.5°	1233.6	1233.6	1233.0	1232.3	1234.3
5°	1230.6	1230.6	1229.9	1229.2	1230.9
7.5°	1225.8	1225.4	1224.8	1224.1	1225.1
10°	1219.0	1218.6	1217.2	1216.9	1218.3
12.5°	1210.4	1210.1	1208.0	1208.0	1209.0
15°	1199.5	1199.1	1197.1	1196.1	1197.4
17.5°	1187.2	1186.8	1184.4	1181.7	1182.4
20°	1170.8	1170.8	1169.1	1165.0	1163.9
22.5°	1151.0	1152.0	1152.0	1144.1	1141.0
25°	1126.0	1129.1	1130.1	1120.2	1114.4
27.5°	1097.6	1102.4	1105.2	1092.5	1085.0
30°	1065.2	1073.0	1076.5	1062.8	1051.8
32.5°	1029.6	1039.5	1043.6	1030.3	1016.3
35°	992.7	1003.3	1005.4	992.4	977.7
37.5°	953.4	964.4	967.1	955.5	937.4
40°	912.1	923.0	923.0	913.4	895.7
42.5°	868.3	880.0	879.6	868.0	851.9
45°	822.9	833.1	831.8	820.5	805.8
47.5°	776.1	782.6	784.3	770.9	756.9
50°	724.8	731.3	733.0	718.0	707.0
52.5°	674.2	678.3	680.7	663.3	655.4
55°	620.2	624.0	625.7	610.3	601.8
57.5°	563.2	568.0	570.0	554.6	545.1
60°	504.7	509.9	510.5	496.2	487.3
62.5°	445.3	452.1	453.5	439.1	428.5
65°	384.4	392.6	394.0	380.7	369.4
67.5°	323.6	334.6	334.9	324.0	310.6
70°	264.2	276.1	275.8	266.6	253.6
72.5°	207.4	218.4	220.8	212.2	199.6
75°	154.8	163.3	166.1	160.6	147.6
77.5°	110.0	117.9	120.3	115.2	105.6
80°	77.2	77.6	80.6	76.5	70.1
82.5°	47.8	47.2	48.2	46.5	42.7
85°	23.9	24.6	25.6	24.3	22.2
87.5°	8.2	8.5	9.2	9.2	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)