

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: P413086

Luminaire Tested: **22PD-45-PC3-L927**

Issue Date: 9/15/2020



**Test Information**

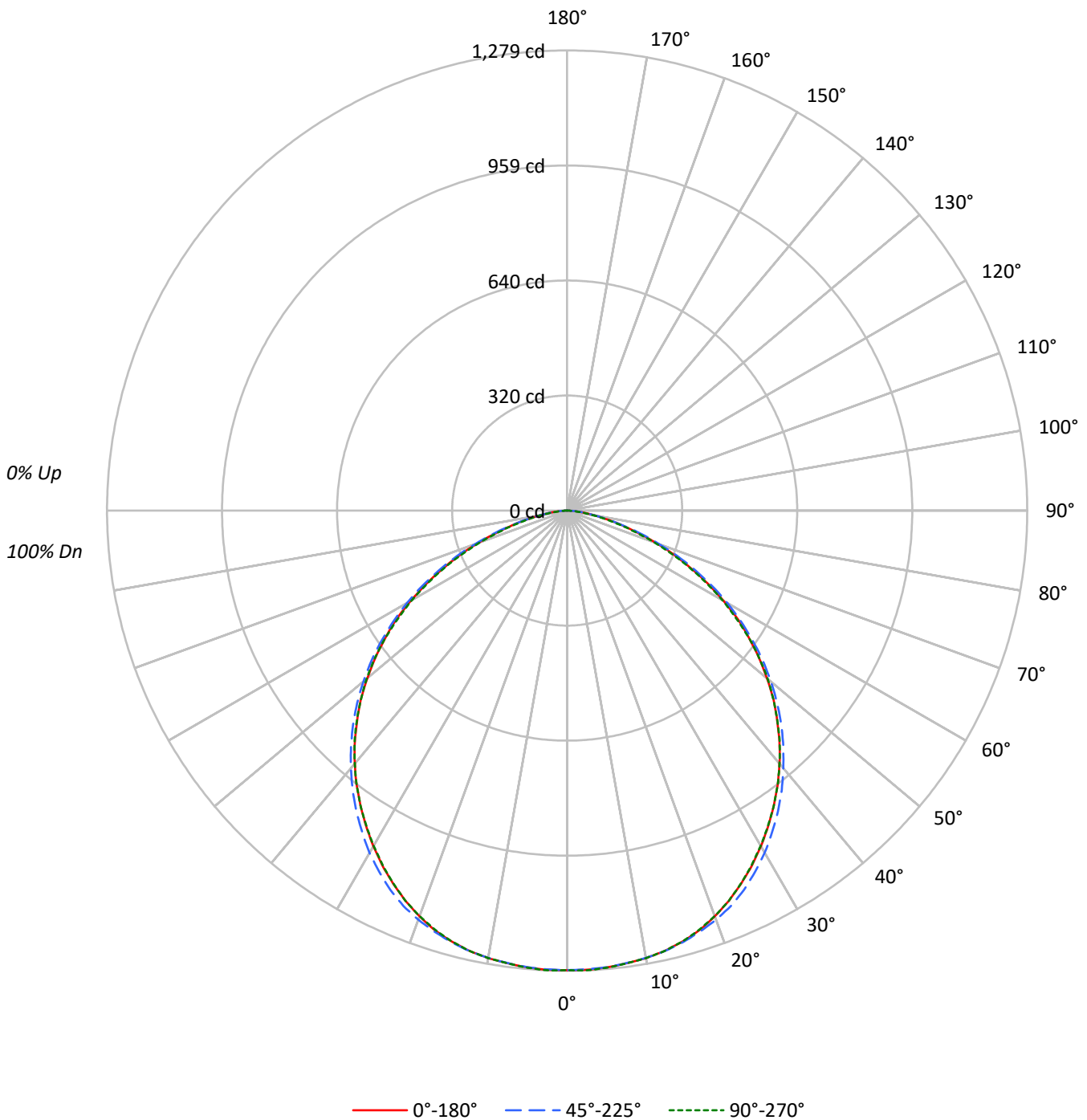
Test Method: LM-79-08  
Report Number: P413086  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-45-PC3-L927  
Description: 4500 LUMEN 2X2 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: 3432.0 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 38.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P413086  
CATALOG NUMBER: 22PD-45-PC3-L927

### 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	110	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	76	80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

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

	0°	45°	90°
0°	3438	3438	3438
5°	3442	3440	3444
10°	3451	3450	3451
15°	3455	3460	3454
20°	3437	3465	3435
25°	3397	3453	3395
30°	3347	3413	3342
35°	3289	3354	3289
40°	3227	3284	3227
45°	3142	3204	3147
50°	3035	3094	3046
55°	2894	2951	2894
60°	2699	2766	2681
65°	2422	2507	2391
70°	2072	2146	2011
75°	1644	1690	1559
80°	1178	1221	1120
85°	778	803	729



TEST NUMBER: P413086

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.2	3.5
10°-20°	350.1	10.2
20°-30°	531.2	15.5
30°-40°	634.4	18.5
40°-50°	645.1	18.8
50°-60°	558.0	16.3
60°-70°	384.0	11.2
70°-80°	174.3	5.1
80°-90°	33.7	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°	1002.5	29.2
0°-40°	1636.8	47.7
0°-60°	2840.0	82.8
0°-90°	3432.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3432.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1278	1278	1278	1278	1278	
5°	1274	1273	1274	1274	1275	121
15°	1240	1241	1242	1240	1240	350
25°	1144	1154	1163	1152	1143	527
35°	1001	1019	1021	1018	1001	626
45°	826	841	842	841	827	637
55°	617	627	629	628	617	551
65°	380	391	394	390	376	377
75°	158	164	162	161	150	170
85°	25	27	26	25	24	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1277.5	1277.5	1277.5	1277.5	1277.5
2.5°	1277.5	1275.9	1276.3	1276.7	1279.1
5°	1274.3	1273.1	1273.5	1273.5	1275.1
7.5°	1269.0	1268.6	1268.6	1268.2	1269.4
10°	1262.9	1262.1	1262.5	1262.1	1262.9
12.5°	1253.5	1253.5	1254.0	1252.7	1253.5
15°	1240.1	1241.0	1241.8	1239.7	1239.7
17.5°	1223.1	1225.1	1227.1	1223.5	1221.4
20°	1200.3	1205.2	1210.1	1204.4	1199.5
22.5°	1173.9	1182.0	1189.3	1180.4	1173.9
25°	1144.2	1154.4	1162.9	1152.4	1143.4
27.5°	1112.1	1123.5	1131.6	1122.7	1110.5
30°	1077.2	1091.0	1098.3	1089.8	1075.6
32.5°	1039.8	1056.1	1060.5	1055.3	1039.0
35°	1001.2	1019.1	1021.1	1017.5	1001.2
37.5°	961.0	978.1	979.7	977.6	961.0
40°	918.7	934.6	935.0	935.0	918.7
42.5°	873.6	889.1	889.1	888.7	874.8
45°	825.7	840.7	841.9	841.1	826.9
47.5°	778.1	789.5	791.5	789.9	777.3
50°	724.9	736.7	739.1	737.5	727.7
52.5°	672.1	683.1	685.5	684.3	673.3
55°	616.8	627.4	629.0	627.8	616.8
57.5°	563.6	570.5	572.1	569.7	555.9
60°	501.4	511.2	514.0	511.2	498.2
62.5°	441.3	451.8	454.3	450.2	436.4
65°	380.3	390.9	393.7	390.5	375.5
67.5°	322.6	330.4	332.8	329.1	315.3
70°	263.3	273.1	272.7	267.8	255.6
72.5°	204.8	218.2	215.8	212.9	199.5
75°	158.1	164.2	162.5	160.9	149.9
77.5°	113.0	120.3	116.2	116.6	107.3
80°	76.0	82.9	78.8	77.2	72.3
82.5°	48.4	51.2	50.4	49.6	45.1
85°	25.2	26.8	26.0	25.2	23.6
87.5°	9.8	10.6	9.8	9.8	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)