

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: P413196

Luminaire Tested: **24PD-40-PC3-L935**

Issue Date: 9/15/2020



**Test Information**

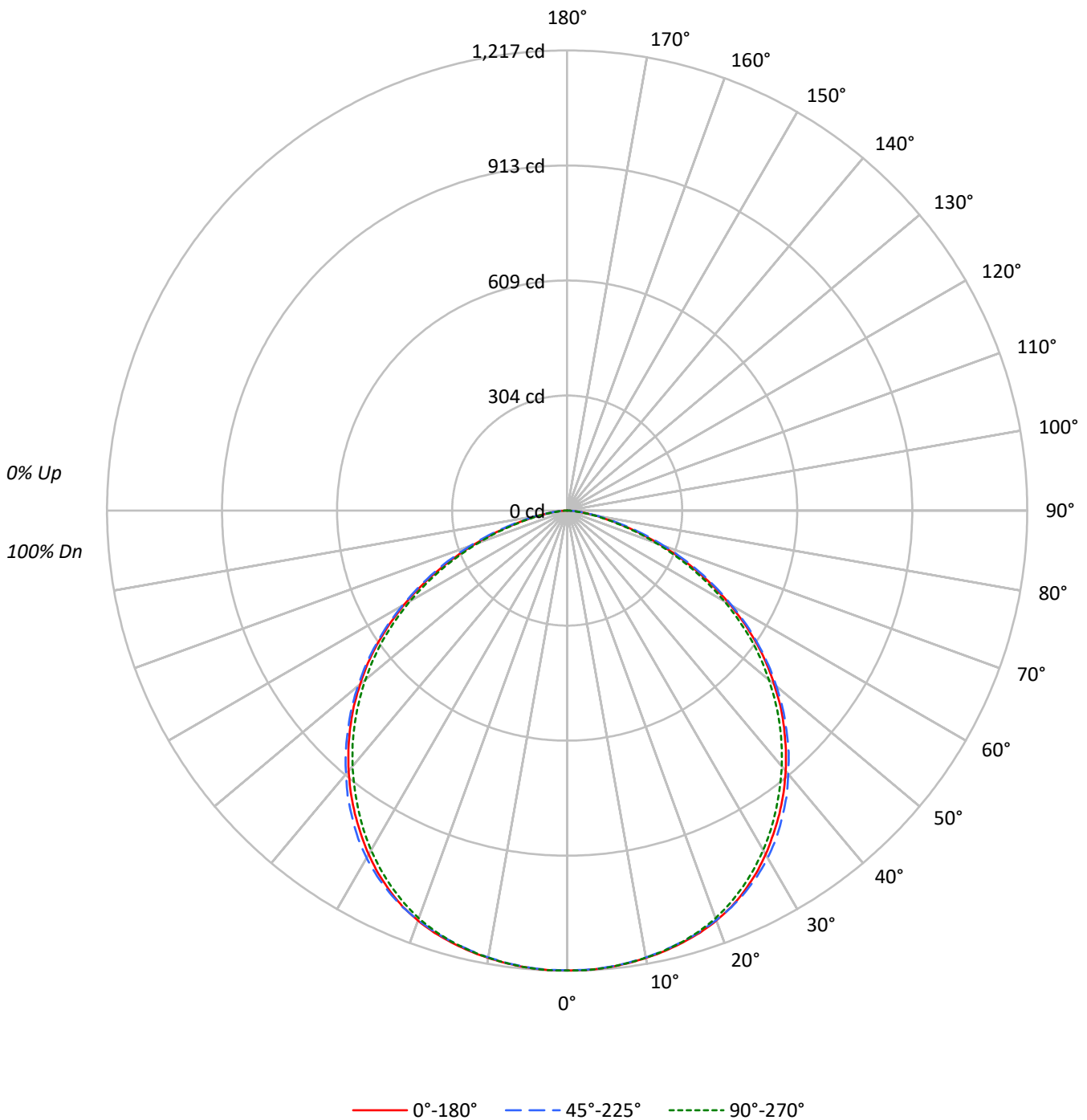
Test Method: LM-79-08  
Report Number: P413196  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-40-PC3-L935  
Description: 4000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3324.0 lumens  
Efficiency: N/A  
Efficacy: 111.9 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): 29.7  
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: P413196  
CATALOG NUMBER: 24PD-40-PC3-L935

### Luminous Intensity Polar Plot





TEST NUMBER: P413196

CATALOG NUMBER: 24PD-40-PC3-L935

**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°	1636	1636	1636
5°	1638	1638	1639
10°	1642	1639	1641
15°	1647	1644	1644
20°	1652	1650	1643
25°	1648	1654	1631
30°	1631	1649	1611
35°	1607	1628	1583
40°	1579	1598	1551
45°	1544	1560	1511
50°	1496	1513	1459
55°	1434	1447	1392
60°	1339	1354	1293
65°	1207	1237	1160
70°	1024	1070	983
75°	793	851	756
80°	590	616	535
85°	364	391	338



TEST NUMBER: P413196

CATALOG NUMBER: 24PD-40-PC3-L935

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.4	3.5
10°-20°	333.5	10.0
20°-30°	510.7	15.4
30°-40°	614.4	18.5
40°-50°	626.5	18.8
50°-60°	543.2	16.3
60°-70°	376.6	11.3
70°-80°	172.0	5.2
80°-90°	31.8	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°	959.6	28.9
0°-40°	1574.0	47.4
0°-60°	2743.7	82.5
0°-90°	3324.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3324.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1216	1216	1216	1216	1216	
5°	1213	1213	1212	1212	1213	115
15°	1182	1182	1180	1179	1180	334
25°	1110	1113	1114	1104	1098	511
35°	979	989	991	978	964	612
45°	811	821	820	809	794	625
55°	611	615	617	602	593	545
65°	379	387	388	375	364	375
75°	153	161	164	158	146	167
85°	24	24	25	24	22	32
90°	0	0	0	0	0	



TEST NUMBER: P413196

CATALOG NUMBER: 24PD-40-PC3-L935

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1216.1	1216.1	1216.1	1216.1	1216.1
2.5°	1216.1	1216.1	1215.4	1214.7	1216.8
5°	1213.1	1213.1	1212.4	1211.7	1213.4
7.5°	1208.3	1208.0	1207.3	1206.7	1207.7
10°	1201.6	1201.3	1199.9	1199.6	1200.9
12.5°	1193.2	1192.8	1190.8	1190.8	1191.8
15°	1182.4	1182.1	1180.0	1179.0	1180.4
17.5°	1170.3	1169.9	1167.6	1164.9	1165.6
20°	1154.1	1154.1	1152.4	1148.4	1147.4
22.5°	1134.6	1135.6	1135.6	1127.8	1124.8
25°	1110.0	1113.0	1114.0	1104.2	1098.5
27.5°	1082.0	1086.7	1089.4	1077.0	1069.6
30°	1050.0	1057.8	1061.1	1047.7	1036.9
32.5°	1015.0	1024.7	1028.8	1015.7	1001.8
35°	978.6	989.0	991.1	978.3	963.8
37.5°	939.9	950.6	953.3	941.9	924.0
40°	899.1	909.9	909.9	900.4	882.9
42.5°	856.0	867.4	867.1	855.6	839.8
45°	811.2	821.3	819.9	808.8	794.3
47.5°	765.0	771.4	773.1	760.0	746.2
50°	714.5	720.9	722.6	707.8	697.0
52.5°	664.6	668.7	671.0	653.9	646.1
55°	611.4	615.1	616.8	601.6	593.2
57.5°	555.2	559.9	561.9	546.7	537.3
60°	497.6	502.6	503.3	489.1	480.4
62.5°	438.9	445.7	447.0	432.9	422.4
65°	379.0	387.1	388.4	375.3	364.2
67.5°	319.0	329.8	330.1	319.3	306.2
70°	260.4	272.2	271.9	262.8	250.0
72.5°	204.5	215.3	217.6	209.2	196.7
75°	152.6	161.0	163.7	158.3	145.5
77.5°	108.5	116.2	118.6	113.5	104.1
80°	76.1	76.5	79.5	75.5	69.1
82.5°	47.2	46.5	47.5	45.8	42.1
85°	23.6	24.3	25.3	23.9	21.9
87.5°	8.1	8.4	9.1	9.1	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)