

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: P413189

Luminaire Tested: **24PD-35-PC3-L950**

Issue Date: 9/15/2020



**Test Information**

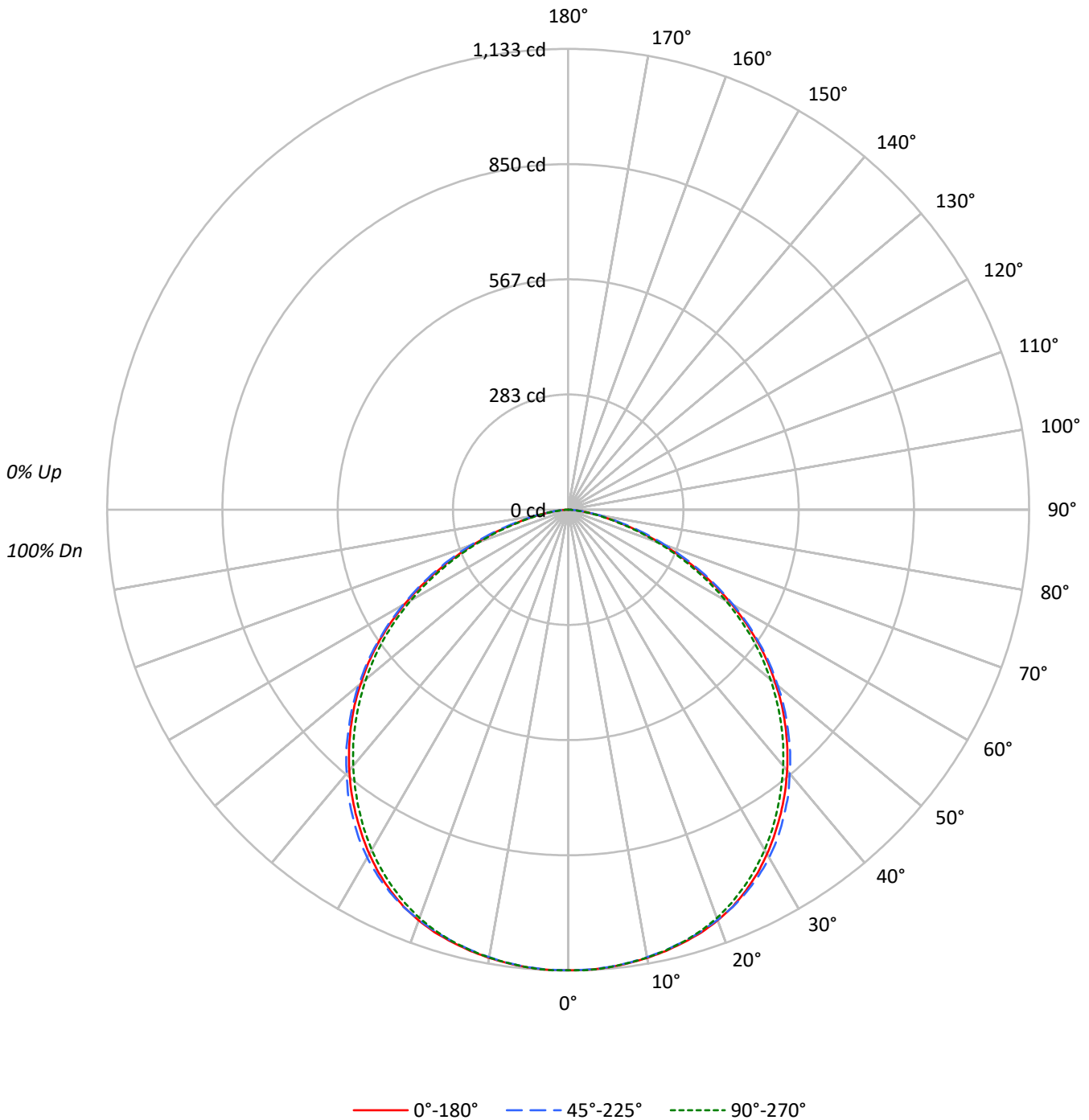
Test Method: LM-79-08  
Report Number: P413189  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-35-PC3-L950  
Description: 3500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3095.0 lumens  
Efficiency: N/A  
Efficacy: 120.0 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): 25.8  
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	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°	1523	1523	1523
5°	1526	1525	1526
10°	1529	1527	1528
15°	1534	1530	1531
20°	1539	1536	1530
25°	1534	1540	1518
30°	1519	1535	1500
35°	1497	1516	1474
40°	1470	1488	1444
45°	1437	1453	1407
50°	1393	1408	1358
55°	1335	1347	1296
60°	1247	1261	1204
65°	1124	1151	1080
70°	954	996	915
75°	739	792	704
80°	549	573	498
85°	340	363	315



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.4	3.5
10°-20°	310.5	10.0
20°-30°	475.5	15.4
30°-40°	572.1	18.5
40°-50°	583.4	18.8
50°-60°	505.7	16.3
60°-70°	350.6	11.3
70°-80°	160.1	5.2
80°-90°	29.6	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°	893.5	28.9
0°-40°	1465.6	47.4
0°-60°	2554.7	82.5
0°-90°	3095.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3095.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1132	1132	1132	1132	1132	
5°	1130	1130	1129	1128	1130	107
15°	1101	1101	1099	1098	1099	311
25°	1034	1036	1037	1028	1023	476
35°	911	921	923	911	897	570
45°	755	765	763	753	740	582
55°	569	573	574	560	552	507
65°	353	360	362	349	339	349
75°	142	150	152	147	136	155
85°	22	23	24	22	20	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1132.3	1132.3	1132.3	1132.3	1132.3
2.5°	1132.3	1132.3	1131.7	1131.1	1132.9
5°	1129.5	1129.5	1128.9	1128.2	1129.8
7.5°	1125.1	1124.8	1124.2	1123.5	1124.5
10°	1118.8	1118.5	1117.3	1116.9	1118.2
12.5°	1111.0	1110.7	1108.8	1108.8	1109.7
15°	1100.9	1100.6	1098.7	1097.8	1099.1
17.5°	1089.7	1089.3	1087.1	1084.6	1085.3
20°	1074.6	1074.6	1073.0	1069.3	1068.3
22.5°	1056.4	1057.3	1057.3	1050.1	1047.3
25°	1033.5	1036.3	1037.3	1028.2	1022.8
27.5°	1007.5	1011.9	1014.4	1002.8	995.9
30°	977.7	984.9	988.0	975.5	965.4
32.5°	945.1	954.2	957.9	945.7	932.8
35°	911.2	920.9	922.8	910.9	897.4
37.5°	875.1	885.1	887.7	877.0	860.4
40°	837.2	847.2	847.2	838.4	822.1
42.5°	797.0	807.7	807.4	796.7	782.0
45°	755.3	764.7	763.4	753.1	739.6
47.5°	712.3	718.3	719.8	707.6	694.8
50°	665.3	671.2	672.8	659.0	649.0
52.5°	618.8	622.6	624.8	608.8	601.6
55°	569.3	572.7	574.3	560.2	552.4
57.5°	516.9	521.3	523.2	509.1	500.3
60°	463.3	468.0	468.6	455.4	447.3
62.5°	408.7	415.0	416.2	403.1	393.3
65°	352.9	360.4	361.6	349.4	339.1
67.5°	297.0	307.1	307.4	297.3	285.1
70°	242.5	253.4	253.1	244.7	232.7
72.5°	190.4	200.4	202.6	194.8	183.2
75°	142.1	149.9	152.4	147.4	135.5
77.5°	101.0	108.2	110.4	105.7	96.9
80°	70.9	71.2	74.0	70.3	64.3
82.5°	43.9	43.3	44.2	42.7	39.2
85°	22.0	22.6	23.5	22.3	20.4
87.5°	7.5	7.8	8.5	8.5	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)