

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: P412755

Luminaire Tested: **22PD-50-PP3-L935**

Issue Date: 9/15/2020



**Test Information**

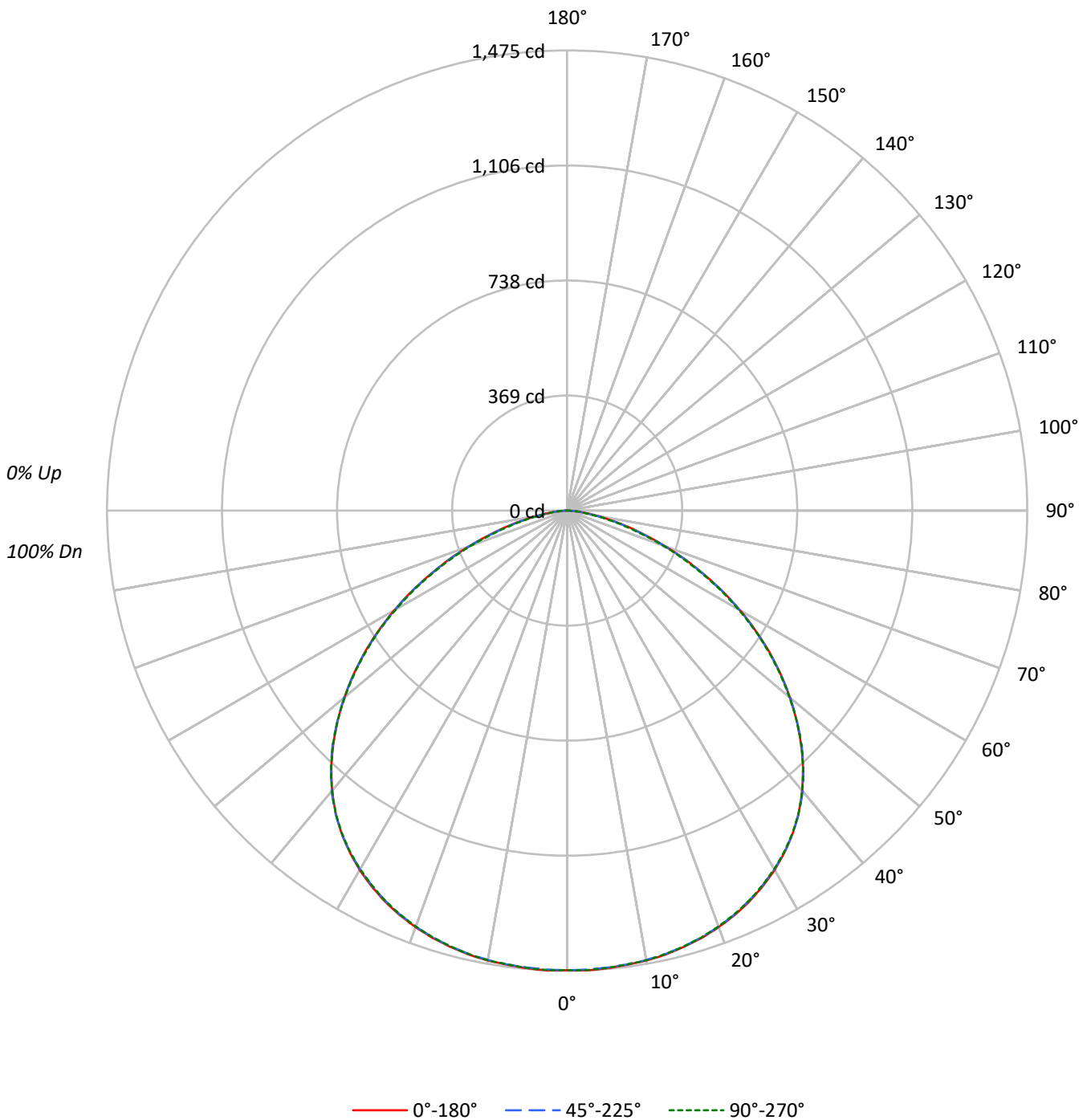
Test Method: LM-79-08  
Report Number: P412755  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-50-PP3-L935  
Description: 5000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4227.0 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.43  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 42.5  
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	98	95	93		95	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77		83	79	75		80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	67	63	61
4	84	72	63	57	81	70	62	56	68	61	55		66	60	55		64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48		59	53	47		57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42		53	47	42		52	46	41	39
7	66	52	44	38	64	52	43	37	50	43	37		49	42	37		47	41	37	35
8	61	48	39	33	60	47	39	33	46	38	33		44	38	33		43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30		41	34	30		40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27	25

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

	0°	45°	90°
0°	3965	3965	3965
5°	3977	3972	3974
10°	4001	3996	3999
15°	4033	4029	4029
20°	4068	4064	4063
25°	4104	4097	4097
30°	4133	4126	4124
35°	4145	4145	4140
40°	4118	4127	4118
45°	4036	4047	4042
50°	3900	3907	3896
55°	3713	3704	3697
60°	3447	3439	3413
65°	3079	3076	3042
70°	2632	2616	2559
75°	2097	2036	1974
80°	1494	1463	1387
85°	973	973	942



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.1	3.3
10°-20°	408.7	9.7
20°-30°	636.4	15.1
30°-40°	787.6	18.6
40°-50°	816.7	19.3
50°-60°	704.0	16.7
60°-70°	478.6	11.3
70°-80°	214.2	5.1
80°-90°	40.8	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°	1185.2	28.0
0°-40°	1972.8	46.7
0°-60°	3493.5	82.6
0°-90°	4227.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4227.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1473	1473	1473	1473	1473	
5°	1472	1469	1470	1470	1471	140
15°	1448	1445	1446	1445	1446	409
25°	1382	1380	1380	1379	1380	637
35°	1262	1260	1262	1260	1260	788
45°	1061	1060	1064	1061	1062	816
55°	792	788	790	788	788	706
65°	484	488	483	482	478	480
75°	202	202	196	195	190	217
85°	32	32	32	30	30	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1473.3	1473.3	1473.3	1473.3	1473.3
2.5°	1475.3	1472.3	1472.3	1472.8	1474.3
5°	1472.3	1469.4	1470.3	1469.9	1471.3
7.5°	1468.4	1465.9	1467.4	1466.4	1467.4
10°	1464.4	1462.0	1462.5	1462.0	1463.5
12.5°	1457.6	1454.6	1455.6	1455.6	1456.1
15°	1447.7	1445.3	1446.2	1445.3	1446.2
17.5°	1435.9	1433.0	1433.5	1433.0	1433.9
20°	1420.7	1418.7	1419.2	1418.2	1418.7
22.5°	1403.4	1401.0	1401.5	1400.5	1400.5
25°	1382.3	1380.3	1379.8	1379.3	1379.8
27.5°	1357.7	1355.2	1355.2	1354.7	1354.7
30°	1330.1	1327.7	1327.7	1327.2	1327.2
32.5°	1297.7	1296.7	1297.2	1296.2	1295.7
35°	1261.8	1260.3	1261.8	1259.8	1260.3
37.5°	1220.0	1218.0	1220.9	1219.0	1219.5
40°	1172.2	1171.3	1174.7	1173.2	1172.2
42.5°	1119.1	1119.1	1120.6	1121.1	1120.1
45°	1060.6	1059.6	1063.5	1061.1	1062.1
47.5°	997.6	996.1	999.1	998.6	998.1
50°	931.7	930.7	933.2	930.7	930.7
52.5°	863.3	862.8	863.3	860.9	860.4
55°	791.5	788.5	789.5	788.1	788.1
57.5°	716.7	713.3	713.8	713.3	713.8
60°	640.5	639.5	639.0	636.5	634.1
62.5°	562.3	563.2	562.8	559.3	556.9
65°	483.6	487.5	483.1	481.6	477.7
67.5°	409.3	410.8	407.8	404.4	399.9
70°	334.5	337.5	332.5	329.1	325.2
72.5°	263.2	265.1	260.7	258.7	253.8
75°	201.7	202.2	195.8	194.8	189.9
77.5°	143.6	145.6	140.7	140.7	135.8
80°	96.4	99.9	94.4	93.0	89.5
82.5°	60.5	61.0	59.5	58.0	56.6
85°	31.5	32.5	31.5	30.5	30.5
87.5°	11.8	12.3	11.8	11.3	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)