

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: P412754

Luminaire Tested: **22PD-50-PP3-L930**

Issue Date: 9/15/2020



**Test Information**

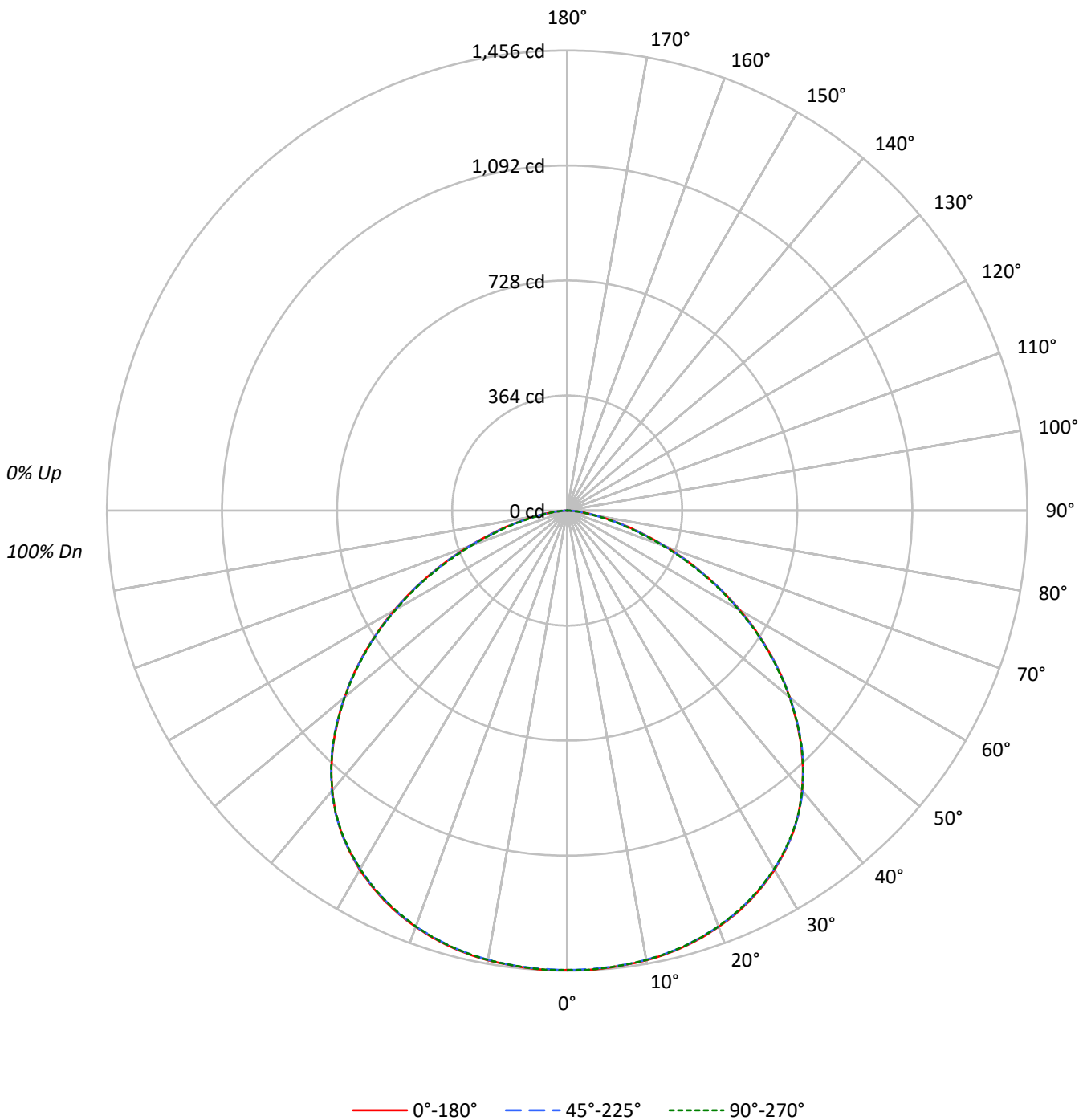
Test Method: LM-79-08  
Report Number: P412754  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-50-PP3-L930  
Description: 5000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4171.0 lumens  
Efficiency: N/A  
Efficacy: 98.1 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°	3912	3912	3912
5°	3924	3919	3922
10°	3948	3943	3946
15°	3980	3976	3976
20°	4014	4010	4009
25°	4050	4043	4043
30°	4078	4071	4069
35°	4090	4090	4085
40°	4063	4072	4063
45°	3983	3994	3988
50°	3849	3855	3845
55°	3664	3655	3648
60°	3401	3393	3367
65°	3039	3035	3001
70°	2597	2581	2525
75°	2069	2009	1948
80°	1474	1444	1368
85°	960	960	929



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.3	3.3
10°-20°	403.3	9.7
20°-30°	627.9	15.1
30°-40°	777.2	18.6
40°-50°	805.9	19.3
50°-60°	694.6	16.7
60°-70°	472.3	11.3
70°-80°	211.3	5.1
80°-90°	40.2	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°	1169.5	28.0
0°-40°	1946.7	46.7
0°-60°	3447.2	82.6
0°-90°	4171.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4171.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1454	1454	1454	1454	1454	
5°	1453	1450	1451	1450	1452	138
15°	1428	1426	1427	1426	1427	404
25°	1364	1362	1362	1361	1362	629
35°	1245	1244	1245	1243	1244	778
45°	1046	1046	1049	1047	1048	805
55°	781	778	779	778	778	696
65°	477	481	477	475	471	474
75°	199	200	193	192	187	214
85°	31	32	31	30	30	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1453.8	1453.8	1453.8	1453.8	1453.8
2.5°	1455.7	1452.8	1452.8	1453.3	1454.8
5°	1452.8	1449.9	1450.9	1450.4	1451.8
7.5°	1448.9	1446.5	1448.0	1447.0	1448.0
10°	1445.0	1442.6	1443.1	1442.6	1444.1
12.5°	1438.2	1435.3	1436.3	1436.3	1436.8
15°	1428.5	1426.1	1427.1	1426.1	1427.1
17.5°	1416.9	1414.0	1414.5	1414.0	1414.9
20°	1401.8	1399.9	1400.4	1399.4	1399.9
22.5°	1384.9	1382.4	1382.9	1381.9	1381.9
25°	1364.0	1362.0	1361.6	1361.1	1361.6
27.5°	1339.7	1337.3	1337.3	1336.8	1336.8
30°	1312.5	1310.1	1310.1	1309.6	1309.6
32.5°	1280.5	1279.5	1280.0	1279.0	1278.5
35°	1245.1	1243.6	1245.1	1243.1	1243.6
37.5°	1203.8	1201.9	1204.8	1202.8	1203.3
40°	1156.7	1155.7	1159.1	1157.7	1156.7
42.5°	1104.3	1104.3	1105.7	1106.2	1105.3
45°	1046.5	1045.6	1049.4	1047.0	1048.0
47.5°	984.4	982.9	985.9	985.4	984.9
50°	919.4	918.4	920.8	918.4	918.4
52.5°	851.9	851.4	851.9	849.5	849.0
55°	781.0	778.1	779.1	777.6	777.6
57.5°	707.2	703.8	704.3	703.8	704.3
60°	632.0	631.0	630.5	628.1	625.7
62.5°	554.8	555.8	555.3	551.9	549.5
65°	477.2	481.0	476.7	475.2	471.3
67.5°	403.9	405.3	402.4	399.0	394.6
70°	330.1	333.0	328.1	324.7	320.9
72.5°	259.7	261.6	257.3	255.3	250.5
75°	199.0	199.5	193.2	192.2	187.4
77.5°	141.7	143.7	138.8	138.8	134.0
80°	95.1	98.5	93.2	91.7	88.3
82.5°	59.7	60.2	58.7	57.3	55.8
85°	31.1	32.0	31.1	30.1	30.1
87.5°	11.6	12.1	11.6	11.2	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)