

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: P412701

Luminaire Tested: **22PD-20-PP3-L935**

Issue Date: 9/15/2020



**Test Information**

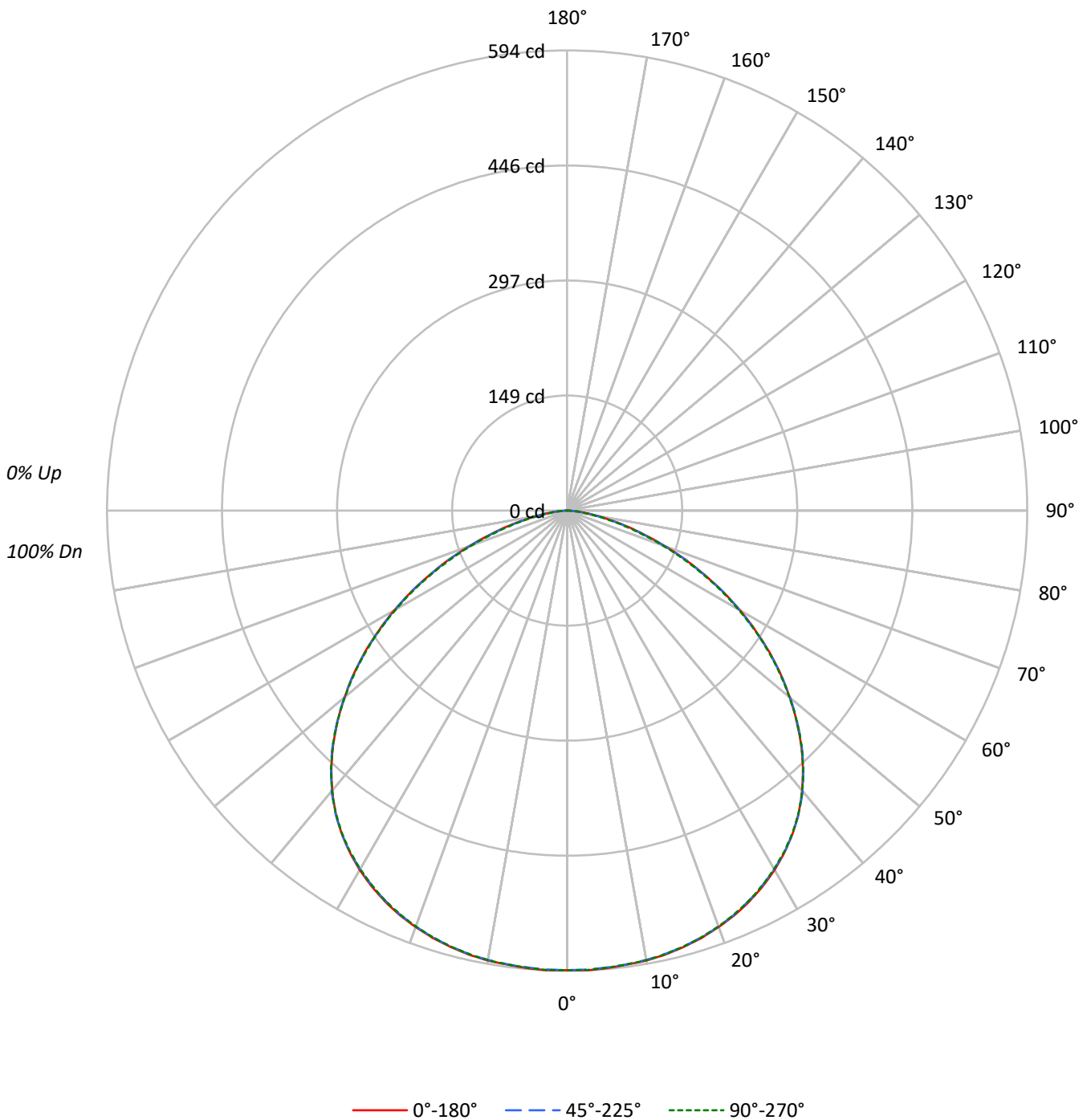
Test Method: LM-79-08  
Report Number: P412701  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-20-PP3-L935  
Description: 2000 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: 1702.0 lumens  
Efficiency: N/A  
Efficacy: 100.7 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): 16.9  
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

TEST NUMBER: P412701  
CATALOG NUMBER: 22PD-20-PP3-L935

### 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	51	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°	1596	1596	1596
5°	1601	1599	1600
10°	1611	1609	1610
15°	1624	1622	1622
20°	1638	1636	1636
25°	1653	1650	1650
30°	1664	1661	1661
35°	1669	1669	1667
40°	1658	1662	1658
45°	1625	1630	1627
50°	1570	1573	1569
55°	1495	1491	1489
60°	1388	1385	1374
65°	1240	1238	1224
70°	1060	1054	1030
75°	844	819	795
80°	601	589	558
85°	392	392	380



TEST NUMBER: P412701

CATALOG NUMBER: 22PD-20-PP3-L935

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.4	3.3
10°-20°	164.6	9.7
20°-30°	256.2	15.1
30°-40°	317.1	18.6
40°-50°	328.8	19.3
50°-60°	283.4	16.7
60°-70°	192.7	11.3
70°-80°	86.2	5.1
80°-90°	16.4	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°	477.2	28.0
0°-40°	794.3	46.7
0°-60°	1406.6	82.6
0°-90°	1702.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1702.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	593	593	593	593	593	
5°	593	592	592	592	592	56
15°	583	582	582	582	582	165
25°	557	556	556	555	556	257
35°	508	508	508	507	508	317
45°	427	427	428	427	428	329
55°	319	318	318	317	317	284
65°	195	196	194	194	192	193
75°	81	81	79	78	76	87
85°	13	13	13	12	12	17
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	593.2	593.2	593.2	593.2	593.2
2.5°	594.0	592.8	592.8	593.0	593.6
5°	592.8	591.6	592.0	591.8	592.4
7.5°	591.2	590.3	590.8	590.4	590.8
10°	589.7	588.7	588.9	588.7	589.3
12.5°	586.9	585.7	586.1	586.1	586.3
15°	582.9	581.9	582.3	581.9	582.3
17.5°	578.2	577.0	577.2	577.0	577.4
20°	572.0	571.2	571.4	571.0	571.2
22.5°	565.1	564.1	564.3	563.9	563.9
25°	556.6	555.8	555.6	555.4	555.6
27.5°	546.7	545.7	545.7	545.5	545.5
30°	535.6	534.6	534.6	534.4	534.4
32.5°	522.5	522.1	522.3	521.9	521.7
35°	508.1	507.5	508.1	507.3	507.5
37.5°	491.2	490.4	491.6	490.8	491.0
40°	472.0	471.6	473.0	472.4	472.0
42.5°	450.6	450.6	451.2	451.4	451.0
45°	427.0	426.6	428.2	427.2	427.6
47.5°	401.7	401.1	402.3	402.1	401.9
50°	375.1	374.8	375.7	374.8	374.8
52.5°	347.6	347.4	347.6	346.6	346.4
55°	318.7	317.5	317.9	317.3	317.3
57.5°	288.6	287.2	287.4	287.2	287.4
60°	257.9	257.5	257.3	256.3	255.3
62.5°	226.4	226.8	226.6	225.2	224.2
65°	194.7	196.3	194.5	193.9	192.3
67.5°	164.8	165.4	164.2	162.8	161.0
70°	134.7	135.9	133.9	132.5	130.9
72.5°	106.0	106.8	105.0	104.2	102.2
75°	81.2	81.4	78.8	78.4	76.5
77.5°	57.8	58.6	56.6	56.6	54.7
80°	38.8	40.2	38.0	37.4	36.0
82.5°	24.4	24.6	24.0	23.4	22.8
85°	12.7	13.1	12.7	12.3	12.3
87.5°	4.8	5.0	4.8	4.6	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)