

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: CORELITE

Report Number: P738343

Luminaire Tested: **22PT-45-PW1-L830**

Issue Date: 2/8/2024



**Test Information**

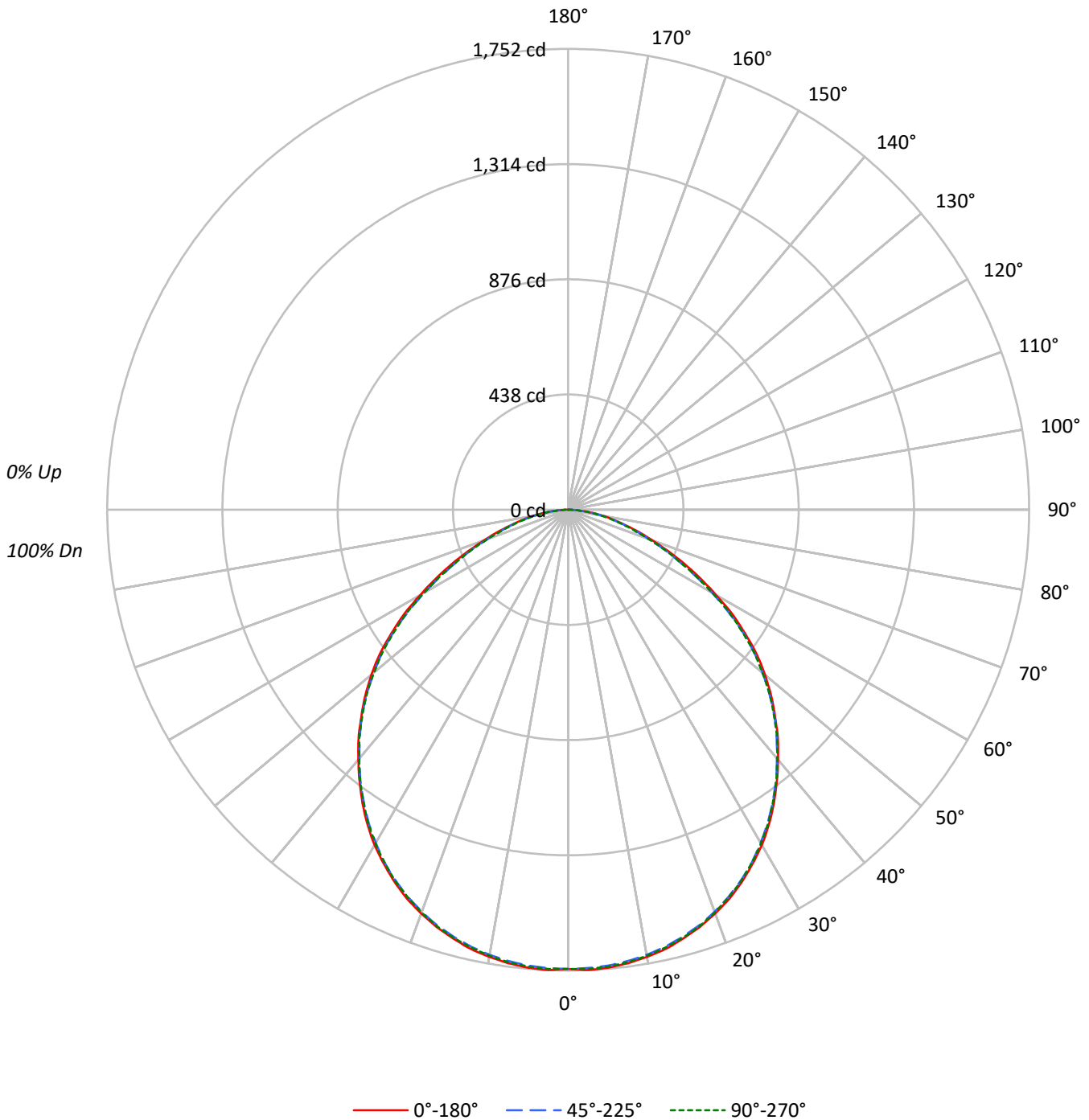
Test Method: LM-79-08  
Report Number: P738343  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22PT-45-PW1-L830  
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND WAVES LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4547.0 lumens  
Efficiency: N/A  
Efficacy: 128.8 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.34  
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 35.3  
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	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

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

	0°	45°	90°
0°	5116	5116	5116
5°	5141	5118	5128
10°	5137	5112	5123
15°	5121	5098	5110
20°	5094	5072	5080
25°	5048	5026	5032
30°	4981	4949	4956
35°	4875	4849	4852
40°	4746	4721	4725
45°	4608	4592	4585
50°	4449	4399	4388
55°	4191	4136	4113
60°	3805	3695	3704
65°	3383	3225	3225
70°	2900	2794	2773
75°	2516	2460	2403
80°	2263	2172	2129
85°	1795	1812	1715



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.5	3.6
10°-20°	474.8	10.4
20°-30°	716.2	15.8
30°-40°	848.3	18.7
40°-50°	854.0	18.8
50°-60°	722.1	15.9
60°-70°	469.5	10.3
70°-80°	233.6	5.1
80°-90°	63.0	1.4
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°	1356.5	29.8
0°-40°	2204.8	48.5
0°-60°	3780.9	83.2
0°-90°	4547.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4547.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1746	1746	1746	1746	1746	
5°	1748	1742	1740	1739	1744	166
15°	1688	1683	1681	1680	1685	476
25°	1561	1556	1554	1553	1556	719
35°	1363	1357	1356	1356	1356	852
45°	1112	1108	1108	1107	1107	858
55°	820	814	810	806	805	732
65°	488	475	465	462	465	484
75°	222	222	217	211	212	241
85°	53	54	54	54	51	64
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1746.0	1746.0	1746.0	1746.0	1746.0
2.5°	1751.9	1746.0	1744.0	1743.0	1747.5
5°	1748.0	1741.5	1740.0	1739.0	1743.5
7.5°	1739.0	1733.1	1731.1	1730.6	1735.1
10°	1726.7	1720.7	1718.3	1717.3	1721.7
12.5°	1710.8	1704.4	1701.9	1700.9	1704.9
15°	1688.1	1682.6	1680.7	1680.2	1684.6
17.5°	1663.3	1657.9	1656.9	1655.4	1659.9
20°	1633.6	1628.2	1626.7	1624.7	1629.2
22.5°	1601.0	1594.5	1592.6	1591.1	1594.5
25°	1561.4	1555.9	1554.5	1553.0	1556.4
27.5°	1517.8	1513.9	1511.9	1510.4	1512.4
30°	1472.3	1465.4	1462.9	1461.9	1464.9
32.5°	1419.8	1414.9	1411.4	1410.9	1414.4
35°	1362.9	1357.0	1355.5	1355.5	1356.5
37.5°	1302.6	1299.6	1297.1	1295.6	1298.6
40°	1240.7	1239.7	1234.3	1233.8	1235.2
42.5°	1179.8	1175.9	1171.9	1173.9	1174.9
45°	1112.0	1108.1	1108.1	1106.6	1106.6
47.5°	1046.7	1042.7	1037.3	1037.8	1038.8
50°	975.9	971.0	965.0	968.5	962.6
52.5°	903.7	894.8	890.3	890.3	889.8
55°	820.5	813.6	809.6	806.2	805.2
57.5°	740.4	730.0	720.1	721.1	724.5
60°	649.3	644.3	630.5	631.5	632.0
62.5°	567.1	557.7	543.4	543.4	548.3
65°	488.0	474.6	465.2	461.7	465.2
67.5°	410.3	402.8	394.9	389.5	394.4
70°	338.5	334.5	326.1	320.7	323.7
72.5°	280.1	274.7	267.7	264.8	261.8
75°	222.2	222.2	217.3	211.3	212.3
77.5°	175.2	173.7	170.2	167.8	167.8
80°	134.1	132.6	128.7	127.7	126.2
82.5°	92.5	93.0	91.1	89.6	87.6
85°	53.4	54.4	53.9	53.9	51.0
87.5°	22.8	20.8	22.3	21.8	23.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)