

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: P738351

Luminaire Tested: **22PT-50-PW1-L830**

Issue Date: 2/8/2024



**Test Information**

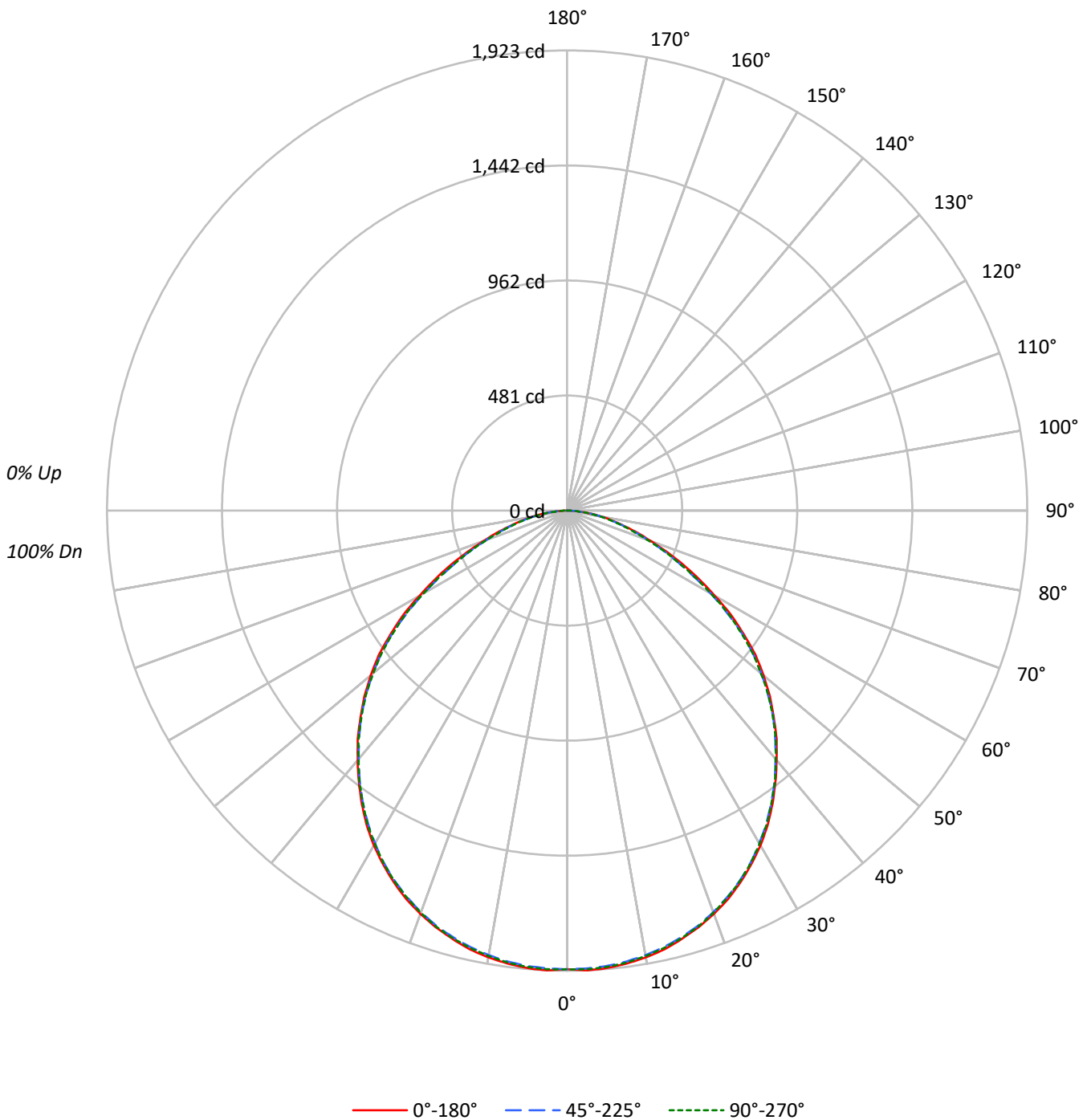
Test Method: LM-79-08  
Report Number: P738351  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22PT-50-PW1-L830  
Description: 5000 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: 4992.0 lumens  
Efficiency: N/A  
Efficacy: 127.0 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): 39.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	5617	5617	5617
5°	5644	5619	5630
10°	5640	5613	5624
15°	5622	5597	5610
20°	5592	5569	5577
25°	5542	5517	5524
30°	5469	5434	5441
35°	5352	5323	5327
40°	5210	5183	5187
45°	5059	5041	5034
50°	4884	4830	4817
55°	4602	4541	4516
60°	4177	4056	4066
65°	3714	3541	3541
70°	3183	3068	3044
75°	2762	2700	2639
80°	2484	2384	2337
85°	1973	1990	1883



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.8	3.6
10°-20°	521.2	10.4
20°-30°	786.3	15.8
30°-40°	931.3	18.7
40°-50°	937.5	18.8
50°-60°	792.7	15.9
60°-70°	515.5	10.3
70°-80°	256.5	5.1
80°-90°	69.1	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°	1489.3	29.8
0°-40°	2420.6	48.5
0°-60°	4150.9	83.2
0°-90°	4992.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4992.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1917	1917	1917	1917	1917	
5°	1919	1912	1910	1909	1914	182
15°	1853	1847	1845	1845	1850	523
25°	1714	1708	1707	1705	1709	789
35°	1496	1490	1488	1488	1489	935
45°	1221	1216	1216	1215	1215	942
55°	901	893	889	885	884	804
65°	536	521	511	507	511	532
75°	244	244	238	232	233	264
85°	59	60	59	59	56	70
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1916.9	1916.9	1916.9	1916.9	1916.9
2.5°	1923.4	1916.9	1914.7	1913.6	1918.5
5°	1919.0	1912.0	1910.3	1909.2	1914.1
7.5°	1909.2	1902.7	1900.6	1900.0	1904.9
10°	1895.7	1889.1	1886.4	1885.3	1890.2
12.5°	1878.3	1871.2	1868.5	1867.4	1871.8
15°	1853.3	1847.3	1845.1	1844.6	1849.5
17.5°	1826.1	1820.1	1819.1	1817.4	1822.3
20°	1793.5	1787.5	1785.9	1783.7	1788.6
22.5°	1757.7	1750.6	1748.4	1746.8	1750.6
25°	1714.2	1708.2	1706.6	1705.0	1708.8
27.5°	1666.4	1662.0	1659.9	1658.2	1660.4
30°	1616.4	1608.8	1606.1	1605.0	1608.2
32.5°	1558.8	1553.4	1549.6	1549.0	1552.8
35°	1496.3	1489.8	1488.2	1488.2	1489.3
37.5°	1430.0	1426.8	1424.1	1422.4	1425.7
40°	1362.1	1361.0	1355.1	1354.5	1356.1
42.5°	1295.3	1290.9	1286.6	1288.8	1289.9
45°	1220.9	1216.5	1216.5	1214.9	1214.9
47.5°	1149.1	1144.8	1138.8	1139.4	1140.4
50°	1071.4	1066.0	1059.5	1063.3	1056.8
52.5°	992.1	982.3	977.4	977.4	976.9
55°	900.8	893.2	888.9	885.1	884.0
57.5°	812.8	801.4	790.5	791.6	795.4
60°	712.8	707.4	692.2	693.3	693.8
62.5°	622.7	612.3	596.6	596.6	602.0
65°	535.7	521.0	510.7	506.9	510.7
67.5°	450.4	442.3	433.6	427.6	433.0
70°	371.6	367.3	358.1	352.1	355.3
72.5°	307.5	301.5	293.9	290.7	287.4
75°	244.0	244.0	238.5	232.0	233.1
77.5°	192.3	190.7	186.9	184.2	184.2
80°	147.2	145.6	141.3	140.2	138.5
82.5°	101.6	102.1	100.0	98.3	96.2
85°	58.7	59.8	59.2	59.2	56.0
87.5°	25.0	22.8	24.4	23.9	26.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)