

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: CORELITE

Report Number: P1046680

Luminaire Tested: 22PTR-50-L830-UNV-STD-W

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1046680
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2310-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22PTR-50-L830-UNV-STD-W
Description: 5000 LUMEN 2X2 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

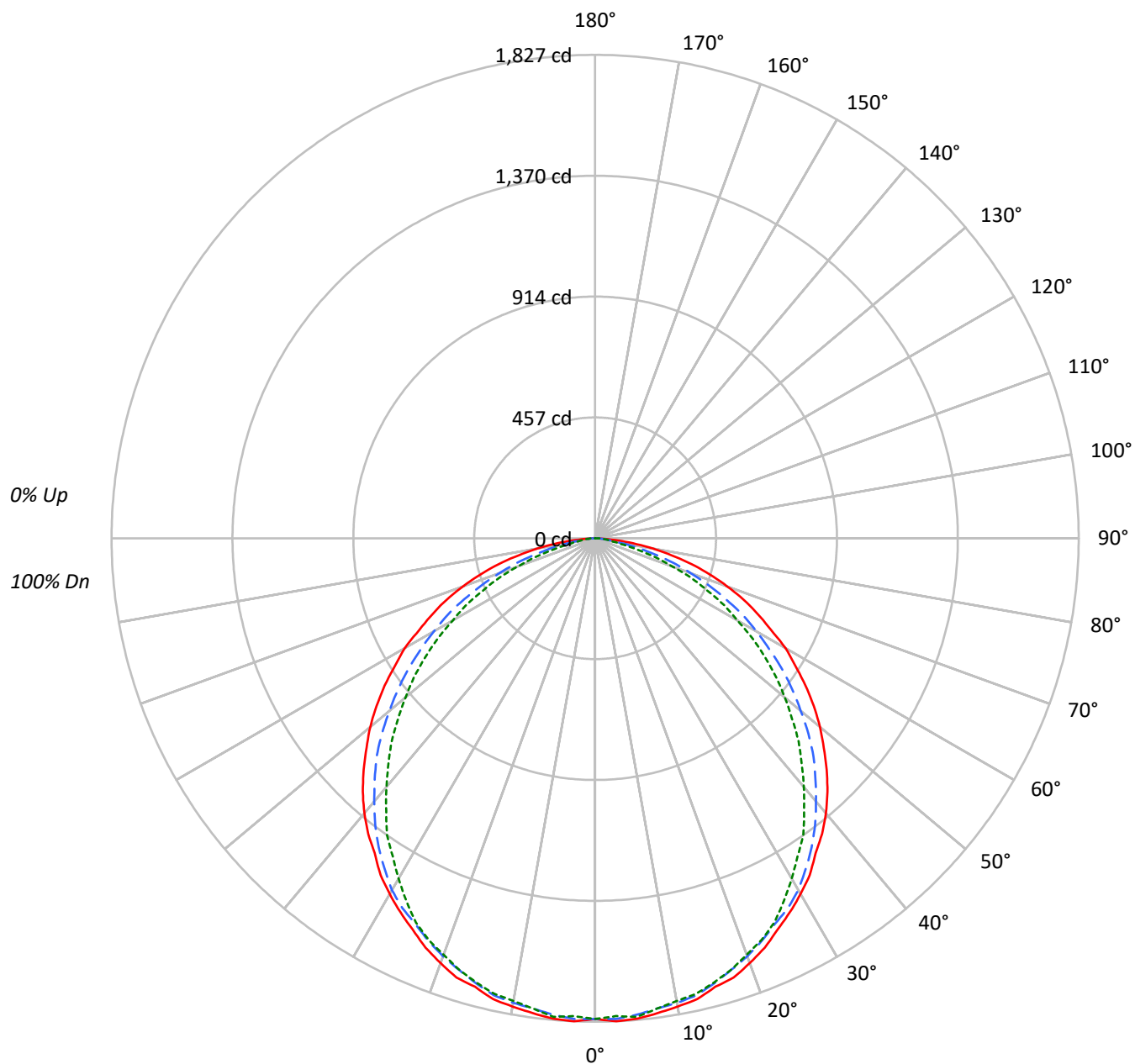
Lumens per Lamp: N/A
Luminaire Lumens: 4838.2 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35
Luminous Opening: (L: 2 ' x W: 0 ' x H: 2 '
CIE Type: Direct

Input Watts (W): 39
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor:
Total Harmonic Distortion (THDi):
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1046680

CATALOG NUMBER: 22PTR-50-L830-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1046680

CATALOG NUMBER: 22PTR-50-L830-UNV-STD-W

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91
2	100	92	85	80	97	90	84	79	87	81	77		83	79	75		80
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71
4	84	72	63	57	81	71	63	56	68	61	56		66	60	55		64
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		52
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		48
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		44
9	57	44	36	31	56	44	36	30	42	35	30		41	35	30		40
10	54	41	33	28	53	40	33	28	39	32	28		38	32	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	Luminous shape not found, reference photometric report, or contact the photometric lab for calculations.		
5°			
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: -
Vertical Angle: -
Luminance: -

TEST NUMBER: P1046680

CATALOG NUMBER: 22PTR-50-L830-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.2	3.6
10°-20°	492.7	10.2
20°-30°	744.2	15.4
30°-40°	884.8	18.3
40°-50°	897.4	18.5
50°-60°	779.3	16.1
60°-70°	553.2	11.4
70°-80°	264.3	5.5
80°-90°	50.1	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°	1409.0	29.1
0°-40°	2293.9	47.4
0°-60°	3970.5	82.1
0°-90°	4838.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4838.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1816	1816	1816	1816	1816	
5°	1823	1816	1808	1812	1815	173
15°	1755	1759	1741	1738	1737	497
25°	1631	1629	1608	1614	1602	753
35°	1452	1450	1426	1377	1371	912
45°	1236	1226	1167	1106	1087	954
55°	970	941	862	811	783	867
65°	678	627	545	487	468	672
75°	378	308	229	182	161	396
85°	74	39	34	32	31	93
90°	0	0	0	0	0	

TEST NUMBER: P1046680

CATALOG NUMBER: 22PTR-50-L830-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1816.4	1816.4	1816.4	1816.4	1816.4
2.5°	1827.2	1820.7	1818.5	1826.1	1807.7
5°	1822.8	1816.4	1807.7	1812.0	1815.3
7.5°	1809.9	1804.5	1792.6	1802.3	1792.6
10°	1796.9	1791.5	1782.8	1786.1	1775.2
12.5°	1783.9	1770.9	1768.8	1770.9	1763.3
15°	1754.7	1759.0	1740.6	1738.5	1737.4
17.5°	1740.6	1729.8	1710.3	1711.4	1709.3
20°	1708.2	1695.2	1681.1	1679.0	1674.6
22.5°	1674.6	1659.5	1646.5	1653.0	1643.3
25°	1631.4	1629.2	1607.6	1614.1	1602.2
27.5°	1593.5	1585.9	1576.2	1562.1	1544.8
30°	1552.4	1544.8	1535.1	1498.3	1485.3
32.5°	1509.1	1500.5	1481.0	1437.7	1423.7
35°	1451.8	1449.6	1425.8	1377.1	1370.6
37.5°	1408.5	1384.7	1365.2	1315.5	1297.1
40°	1356.6	1343.6	1298.2	1250.6	1226.8
42.5°	1299.3	1284.1	1232.2	1181.3	1155.4
45°	1236.5	1225.7	1167.3	1105.6	1087.2
47.5°	1171.6	1161.9	1092.6	1033.1	1009.3
50°	1108.9	1097.0	1013.7	956.3	934.7
52.5°	1040.7	1021.2	939.0	882.8	862.2
55°	970.4	941.2	862.2	811.4	783.2
57.5°	895.7	868.7	781.1	728.1	705.3
60°	830.8	793.0	703.2	649.1	619.9
62.5°	747.5	715.1	629.6	565.8	551.7
65°	678.3	627.4	545.2	486.8	468.4
67.5°	608.0	548.5	465.2	405.7	395.9
70°	531.2	469.5	384.0	325.6	309.4
72.5°	453.3	392.7	309.4	247.7	238.0
75°	377.6	308.3	229.3	181.7	161.2
77.5°	295.3	232.6	161.2	111.4	98.4
80°	219.6	156.9	93.0	66.0	64.9
82.5°	143.9	90.9	49.8	50.8	48.7
85°	73.6	38.9	33.5	32.5	31.4
87.5°	14.1	15.1	16.2	16.2	16.2
90°	0.0	0.0	0.0	0.0	0.0







— 0°-180° - - 45°-225° - - - 90°-270°





(END OF REPORT)