

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: P1046806

Luminaire Tested: 22PTR-50-PL1-L830-UNV-STD-W

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1046806
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737719)
Test Lab: INNOVATION CENTER
Issue Date: 7/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22PTR-50-PL1-L830-UNV-STD-W
Description: 5000 LUMEN 2X2 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

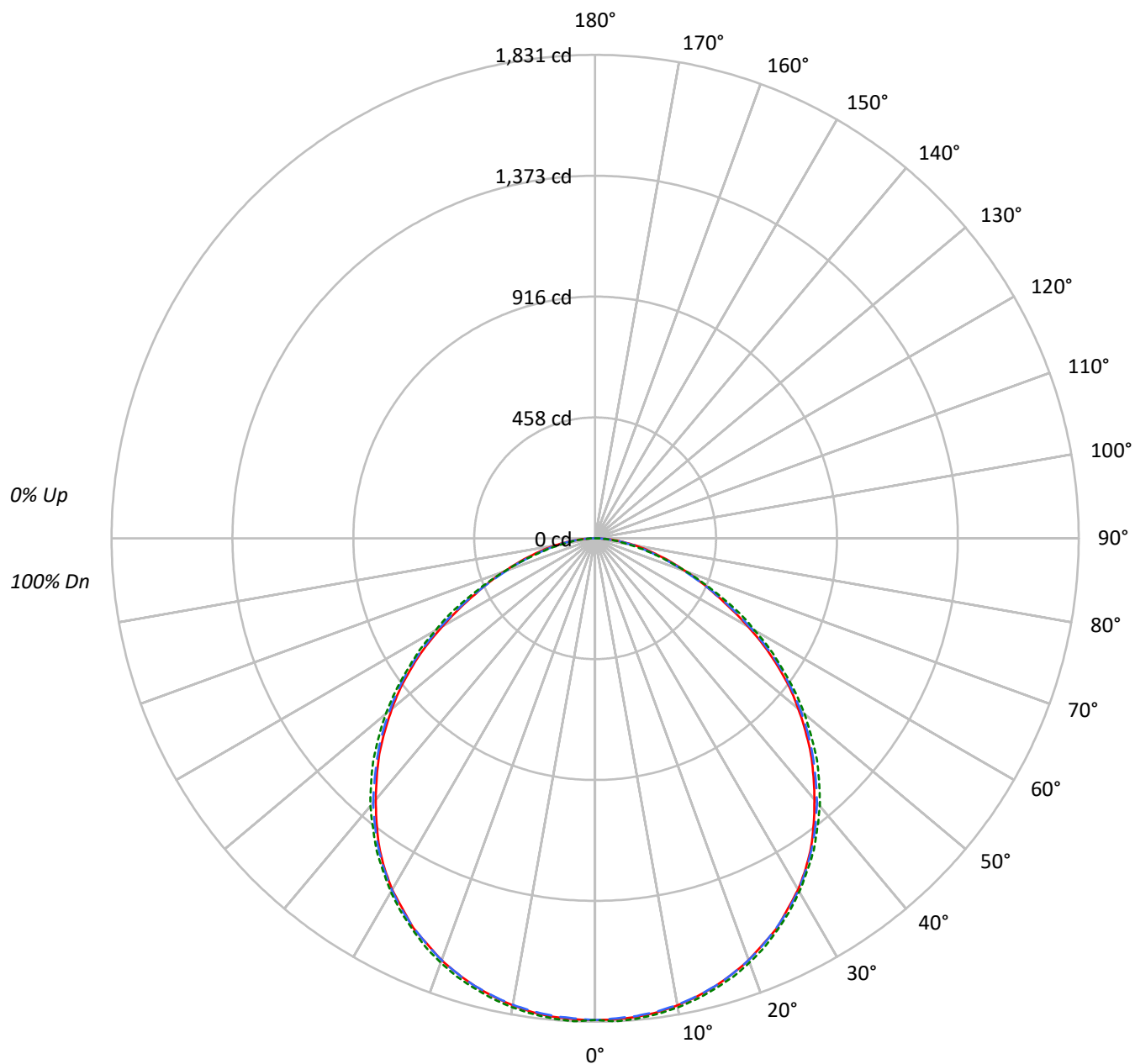
Lumens per Lamp: N/A
Luminaire Lumens: 4810.2 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: (L: 2 ' x W: 0 ' x H: 2 '
CIE Type: Direct

Input Watts (W): 39
Input Voltage (V): 120
Input Current (A_{in}): 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

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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
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97		107	103	99	96		98	95	93		94	92	90		91	89	87
2	100	92	86	80		97	90	84	79		87	82	77		83	79	75		80	77	74
3	91	81	73	67		89	80	72	66		77	70	65		74	69	64		71	67	63
4	84	72	64	57		82	71	63	57		68	61	56		66	60	55		64	59	55
5	77	65	56	49		75	64	55	49		61	54	49		60	53	48		58	52	48
6	71	58	50	43		69	57	49	43		56	48	43		54	47	42		52	47	42
7	66	53	44	38		65	52	44	38		51	43	38		49	43	38		48	42	37
8	62	48	40	34		60	48	40	34		46	39	34		45	39	34		44	38	34
9	58	44	36	31		56	44	36	31		43	36	31		42	35	30		41	35	30
10	54	41	33	28		53	41	33	28		40	33	28		39	32	28		38	32	28

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: -

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.1	3.6
10°-20°	496.5	10.3
20°-30°	751.0	15.6
30°-40°	895.1	18.6
40°-50°	900.1	18.7
50°-60°	763.9	15.9
60°-70°	508.6	10.6
70°-80°	254.0	5.3
80°-90°	67.9	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°	1420.5	29.5
0°-40°	2315.7	48.1
0°-60°	3979.7	82.7
0°-90°	4810.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4810.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1825	1825	1825	1825	1825	
5°	1819	1820	1816	1824	1826	173
15°	1757	1758	1756	1763	1765	496
25°	1629	1629	1627	1634	1635	749
35°	1426	1427	1431	1441	1443	889
45°	1155	1157	1165	1180	1187	889
55°	844	850	857	866	868	752
65°	501	505	506	514	527	502
75°	247	244	233	228	228	266
85°	64	63	58	55	50	74
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1824.9	1824.9	1824.9	1824.9	1824.9
2.5°	1823.4	1824.9	1819.9	1828.8	1831.0
5°	1819.4	1819.9	1816.0	1824.1	1826.1
7.5°	1810.6	1811.3	1807.2	1816.0	1817.2
10°	1796.4	1797.8	1794.4	1802.5	1804.5
12.5°	1778.2	1780.1	1776.7	1785.5	1787.0
15°	1756.6	1758.5	1755.8	1763.2	1764.7
17.5°	1730.0	1731.5	1730.0	1736.9	1740.8
20°	1700.3	1700.3	1700.3	1706.4	1709.9
22.5°	1663.2	1666.6	1665.2	1673.3	1676.7
25°	1628.8	1628.8	1626.6	1634.2	1635.4
27.5°	1580.7	1586.1	1585.6	1592.2	1593.7
30°	1536.7	1538.2	1538.9	1543.6	1546.3
32.5°	1483.4	1484.6	1486.8	1493.4	1494.2
35°	1425.9	1427.4	1431.3	1441.4	1442.8
37.5°	1359.1	1366.4	1369.9	1380.7	1381.9
40°	1292.0	1296.7	1307.0	1318.3	1323.7
42.5°	1223.7	1229.1	1235.2	1250.7	1255.6
45°	1155.4	1157.4	1165.0	1180.5	1187.3
47.5°	1079.7	1085.9	1092.5	1106.0	1110.2
50°	1004.1	1010.7	1014.9	1026.9	1035.0
52.5°	927.7	933.8	938.5	945.8	953.9
55°	843.9	849.8	857.4	865.5	867.5
57.5°	758.6	765.3	770.2	778.8	787.6
60°	667.2	674.9	681.5	689.6	698.4
62.5°	582.2	585.4	592.3	605.8	618.6
65°	500.9	505.1	506.3	513.9	526.7
67.5°	433.4	433.4	427.2	429.9	444.2
70°	362.4	359.7	355.0	352.3	363.8
72.5°	304.9	301.4	291.4	286.7	292.8
75°	247.4	244.0	233.1	227.7	228.5
77.5°	198.7	193.3	184.5	175.2	173.2
80°	150.8	148.6	140.0	131.2	124.3
82.5°	106.9	102.2	97.3	91.9	86.5
85°	64.1	62.9	58.2	54.8	50.1
87.5°	26.3	26.3	25.1	23.6	22.4
90°	0.0	0.0	0.0	0.0	0.0







— 0°-180° - - 45°-225° - - - 90°-270°





(END OF REPORT)