

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: P1046805

Luminaire Tested: 22PTR-45-PL1-L830-UNV-STD-W

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1046805
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-45-PL1-L830-UNV-STD-W
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

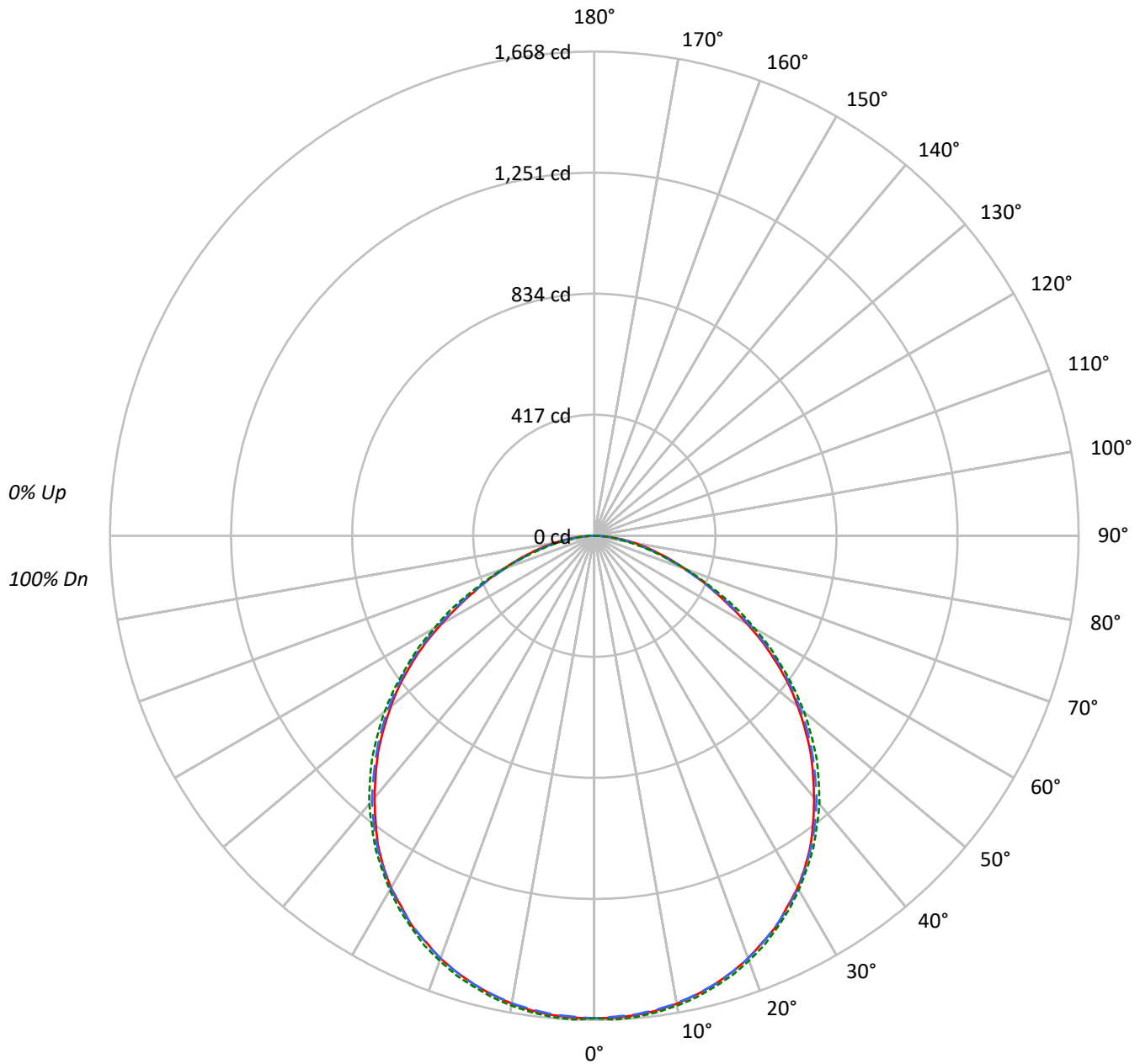
Lumens per Lamp: N/A
Luminaire Lumens: 4382.4 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: (L: 2 ' x W: 0 ' x H: 2 '
CIE Type: Direct

Input Watts (W): 35
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
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			94	92	90			91
2	100	92	86	80	97	90	84	79		87	82	77			83	79	75			80
3	91	81	73	67	89	80	72	66		77	70	65			74	69	64			71
4	84	72	64	57	82	71	63	57		68	61	56			66	60	55			64
5	77	65	56	49	75	64	55	49		61	54	49			60	53	48			58
6	71	58	50	43	69	57	49	43		56	48	43			54	47	42			52
7	66	53	44	38	65	52	44	38		51	43	38			49	43	38			48
8	62	48	40	34	60	48	40	34		46	39	34			45	39	34			44
9	58	44	36	31	56	44	36	31		43	36	31			42	35	30			41
10	54	41	33	28	53	41	33	28		40	33	28			39	32	28			38

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°	157.7	3.6
10°-20°	452.3	10.3
20°-30°	684.2	15.6
30°-40°	815.5	18.6
40°-50°	820.1	18.7
50°-60°	696.0	15.9
60°-70°	463.4	10.6
70°-80°	231.4	5.3
80°-90°	61.9	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°	1294.2	29.5
0°-40°	2109.7	48.1
0°-60°	3625.8	82.7
0°-90°	4382.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4382.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1663	1663	1663	1663	1663	
5°	1658	1658	1654	1662	1664	158
15°	1600	1602	1600	1606	1608	452
25°	1484	1484	1482	1489	1490	682
35°	1299	1300	1304	1313	1314	810
45°	1053	1054	1061	1076	1082	810
55°	769	774	781	788	790	685
65°	456	460	461	468	480	458
75°	225	222	212	208	208	242
85°	58	57	53	50	46	68
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1662.6	1662.6	1662.6	1662.6	1662.6
2.5°	1661.2	1662.6	1658.1	1666.2	1668.2
5°	1657.6	1658.1	1654.5	1661.9	1663.7
7.5°	1649.6	1650.3	1646.5	1654.5	1655.6
10°	1636.6	1637.9	1634.8	1642.2	1644.0
12.5°	1620.0	1621.8	1618.7	1626.8	1628.1
15°	1600.3	1602.1	1599.7	1606.4	1607.7
17.5°	1576.2	1577.5	1576.2	1582.4	1586.0
20°	1549.1	1549.1	1549.1	1554.7	1557.8
22.5°	1515.3	1518.4	1517.1	1524.5	1527.6
25°	1484.0	1484.0	1481.9	1488.9	1490.0
27.5°	1440.1	1445.0	1444.6	1450.6	1452.0
30°	1400.0	1401.4	1402.0	1406.3	1408.8
32.5°	1351.5	1352.6	1354.6	1360.6	1361.3
35°	1299.1	1300.4	1304.0	1313.2	1314.5
37.5°	1238.2	1244.9	1248.0	1257.9	1259.0
40°	1177.1	1181.3	1190.7	1201.0	1206.0
42.5°	1114.9	1119.8	1125.4	1139.5	1144.0
45°	1052.6	1054.4	1061.4	1075.5	1081.7
47.5°	983.7	989.3	995.3	1007.7	1011.5
50°	914.8	920.8	924.6	935.6	943.0
52.5°	845.2	850.8	855.0	861.7	869.1
55°	768.8	774.2	781.1	788.5	790.3
57.5°	691.2	697.2	701.7	709.5	717.6
60°	607.9	614.8	620.9	628.3	636.3
62.5°	530.5	533.4	539.6	552.0	563.6
65°	456.4	460.2	461.3	468.2	479.9
67.5°	394.8	394.8	389.2	391.7	404.7
70°	330.1	327.7	323.4	321.0	331.5
72.5°	277.8	274.6	265.5	261.2	266.8
75°	225.4	222.3	212.4	207.5	208.2
77.5°	181.1	176.2	168.1	159.6	157.8
80°	137.4	135.4	127.6	119.5	113.3
82.5°	97.4	93.1	88.6	83.7	78.8
85°	58.4	57.3	53.0	49.9	45.7
87.5°	23.9	23.9	22.8	21.5	20.4
90°	0.0	0.0	0.0	0.0	0.0







— 0°-180° - - 45°-225° - - - 90°-270°





(END OF REPORT)