

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: P1046820

Luminaire Tested: 22PTR-45-PL1-L850-UNV-STD-W

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1046820
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-L850-UNV-STD-W
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

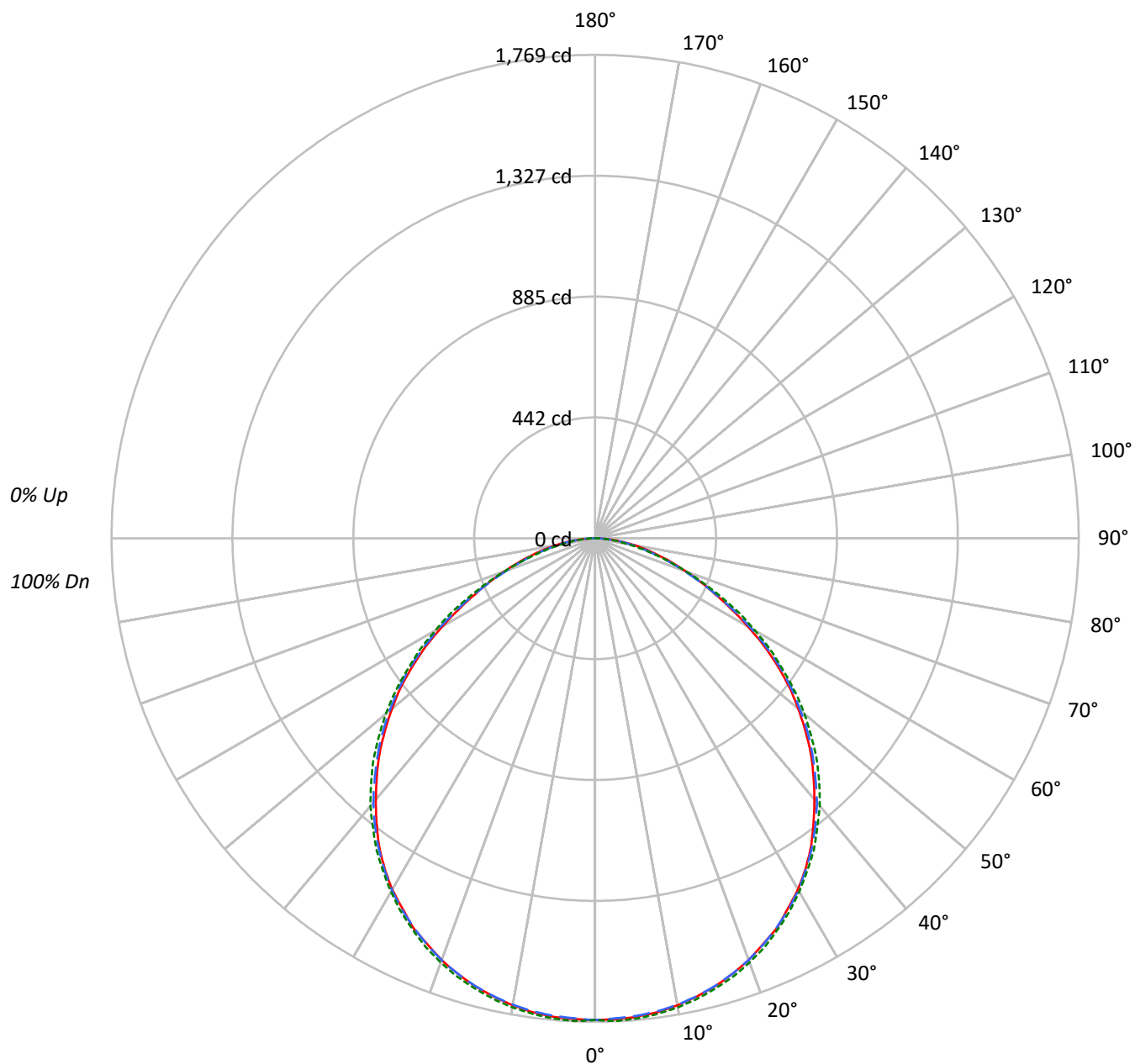
Lumens per Lamp: N/A
Luminaire Lumens: 4646.3 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: (L: 2 ' x W: 0 ' x H: 2 '
CIE Type: Direct

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	30	10	50	30	10
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	94	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72		
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61		
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	52		
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	46		
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40		
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35		
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32		
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	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°	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°	167.2	3.6
10°-20°	479.6	10.3
20°-30°	725.4	15.6
30°-40°	864.6	18.6
40°-50°	869.4	18.7
50°-60°	737.9	15.9
60°-70°	491.3	10.6
70°-80°	245.3	5.3
80°-90°	65.6	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°	1372.1	29.5
0°-40°	2236.7	48.1
0°-60°	3844.1	82.7
0°-90°	4646.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4646.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1763	1763	1763	1763	1763	
5°	1757	1758	1754	1762	1764	167
15°	1697	1699	1696	1703	1704	479
25°	1573	1573	1571	1578	1580	723
35°	1377	1379	1382	1392	1394	859
45°	1116	1118	1125	1140	1147	859
55°	815	821	828	836	838	726
65°	484	488	489	496	509	485
75°	239	236	225	220	221	257
85°	62	61	56	53	48	72
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1762.7	1762.7	1762.7	1762.7	1762.7
2.5°	1761.2	1762.7	1757.9	1766.5	1768.6
5°	1757.4	1757.9	1754.1	1762.0	1763.8
7.5°	1748.9	1749.6	1745.6	1754.1	1755.3
10°	1735.1	1736.6	1733.2	1741.1	1743.0
12.5°	1717.6	1719.5	1716.2	1724.7	1726.1
15°	1696.7	1698.6	1696.0	1703.1	1704.5
17.5°	1671.1	1672.5	1671.1	1677.7	1681.5
20°	1642.4	1642.4	1642.4	1648.3	1651.6
22.5°	1606.5	1609.8	1608.4	1616.2	1619.6
25°	1573.3	1573.3	1571.2	1578.5	1579.7
27.5°	1526.8	1532.0	1531.5	1537.9	1539.4
30°	1484.3	1485.7	1486.4	1491.0	1493.6
32.5°	1432.8	1434.0	1436.1	1442.5	1443.3
35°	1377.3	1378.7	1382.5	1392.2	1393.7
37.5°	1312.7	1319.9	1323.2	1333.6	1334.8
40°	1248.0	1252.5	1262.4	1273.4	1278.6
42.5°	1182.0	1187.2	1193.1	1208.1	1212.8
45°	1116.0	1117.9	1125.3	1140.2	1146.9
47.5°	1042.9	1048.9	1055.3	1068.3	1072.4
50°	969.8	976.3	980.3	991.9	999.7
52.5°	896.0	902.0	906.5	913.6	921.4
55°	815.1	820.8	828.2	836.0	837.9
57.5°	732.8	739.2	743.9	752.2	760.8
60°	644.5	651.9	658.3	666.1	674.6
62.5°	562.4	565.5	572.1	585.2	597.5
65°	483.9	487.9	489.1	496.4	508.8
67.5°	418.6	418.6	412.7	415.3	429.0
70°	350.0	347.4	342.9	340.3	351.4
72.5°	294.5	291.2	281.4	276.9	282.9
75°	239.0	235.6	225.2	220.0	220.7
77.5°	192.0	186.8	178.2	169.2	167.3
80°	145.7	143.6	135.3	126.7	120.1
82.5°	103.2	98.7	94.0	88.8	83.5
85°	61.9	60.7	56.2	52.9	48.4
87.5°	25.4	25.4	24.2	22.8	21.6
90°	0.0	0.0	0.0	0.0	0.0







— 0°-180° - - 45°-225° - - - 90°-270°





(END OF REPORT)