

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: P1046988

Luminaire Tested: 22PTR-45-PW1-L850-UNV-STD-W

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1046988
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737743)
Test Lab: INNOVATION CENTER
Issue Date: 7/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22PTR-45-PW1-L850-UNV-STD-W
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND WAVES LENS

Light Source:
Ballast/Driver: -

Summary

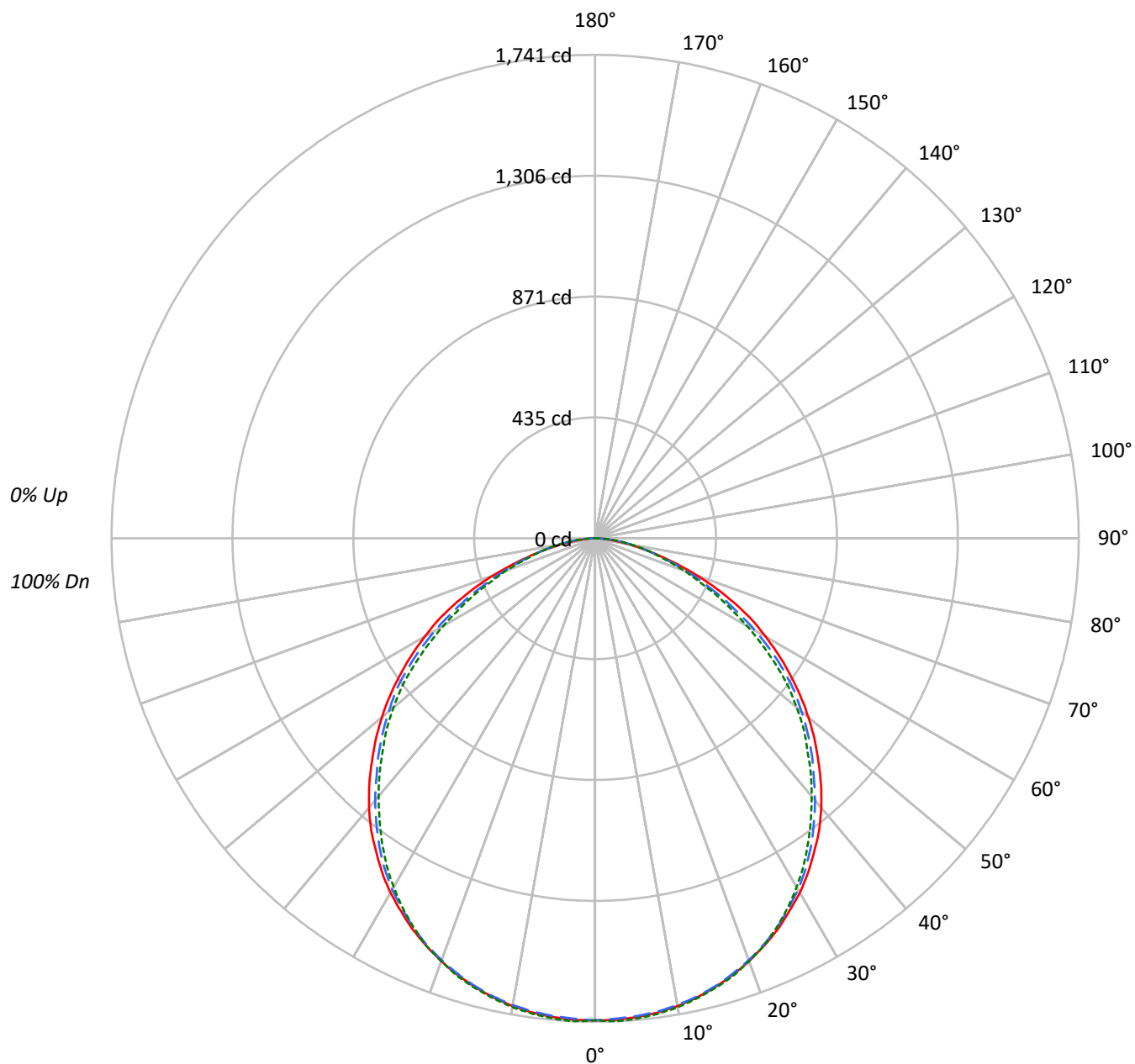
Lumens per Lamp: N/A
Luminaire Lumens: 4607.5 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: (L: 2' x W: 0' x H: 2'
CIE Type: Direct

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	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52		
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40		
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35		
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31		
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	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°	164.6	3.6
10°-20°	472.3	10.2
20°-30°	713.7	15.5
30°-40°	847.5	18.4
40°-50°	853.8	18.5
50°-60°	738.0	16.0
60°-70°	504.4	10.9
70°-80°	248.7	5.4
80°-90°	64.3	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°	1350.7	29.3
0°-40°	2198.1	47.7
0°-60°	3790.0	82.3
0°-90°	4607.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4607.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1736	1736	1736	1736	1736	
5°	1731	1732	1727	1734	1736	165
15°	1673	1674	1670	1676	1676	472
25°	1554	1553	1548	1549	1547	716
35°	1376	1371	1355	1342	1337	861
45°	1137	1124	1103	1090	1081	877
55°	857	854	828	804	795	766
65°	554	534	503	481	478	547
75°	235	233	230	230	223	256
85°	44	52	57	58	57	54
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1736.2	1736.2	1736.2	1736.2	1736.2
2.5°	1735.7	1736.2	1731.7	1739.5	1741.3
5°	1731.0	1731.7	1727.3	1734.3	1736.2
7.5°	1722.9	1724.0	1718.9	1725.9	1727.3
10°	1710.5	1711.2	1706.7	1713.7	1715.1
12.5°	1693.9	1694.3	1690.6	1696.9	1696.9
15°	1672.6	1674.5	1670.0	1675.9	1676.3
17.5°	1648.8	1649.5	1645.0	1651.3	1652.7
20°	1620.5	1620.5	1616.7	1621.9	1620.5
22.5°	1588.9	1588.9	1584.5	1587.0	1588.2
25°	1554.3	1552.9	1547.8	1549.2	1546.6
27.5°	1514.3	1514.3	1505.2	1505.2	1500.8
30°	1473.9	1470.6	1461.0	1455.2	1450.8
32.5°	1427.4	1422.9	1410.8	1400.5	1397.2
35°	1375.5	1370.8	1354.7	1342.5	1337.4
37.5°	1325.2	1314.9	1293.7	1281.5	1275.7
40°	1266.5	1253.7	1231.9	1215.1	1212.5
42.5°	1203.7	1193.4	1165.1	1152.7	1149.7
45°	1136.8	1124.4	1103.1	1090.3	1080.7
47.5°	1071.1	1062.0	1037.7	1022.3	1019.0
50°	1002.2	994.4	969.4	952.8	947.0
52.5°	930.9	925.7	904.4	883.2	876.2
55°	857.0	854.4	828.0	803.5	795.0
57.5°	784.3	781.0	748.1	719.8	712.1
60°	708.3	698.7	666.5	640.1	631.6
62.5°	636.3	615.7	580.9	560.3	550.8
65°	553.8	533.9	503.1	481.1	478.1
67.5°	472.9	449.1	425.2	411.7	401.4
70°	388.5	372.4	354.4	342.9	341.1
72.5°	310.0	298.5	289.4	282.4	276.5
75°	234.7	232.8	229.6	229.6	223.2
77.5°	172.5	177.0	179.5	178.8	180.2
80°	119.7	128.6	133.7	134.4	133.7
82.5°	76.0	86.3	94.7	95.8	97.2
85°	44.4	52.1	57.3	58.4	57.3
87.5°	19.9	25.0	26.4	27.6	26.4
90°	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report







— 0°-180° - - 45°-225° - - - 90°-270°





(END OF REPORT)