

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: P1046778

Luminaire Tested: 22PTR-45-PC3-L850-UNV-STD-W

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1046778
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737711)
Test Lab: INNOVATION CENTER
Issue Date: 7/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22PTR-45-PC3-L850-UNV-STD-W
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND PARAMID LENS

Light Source:
Ballast/Driver: -

Summary

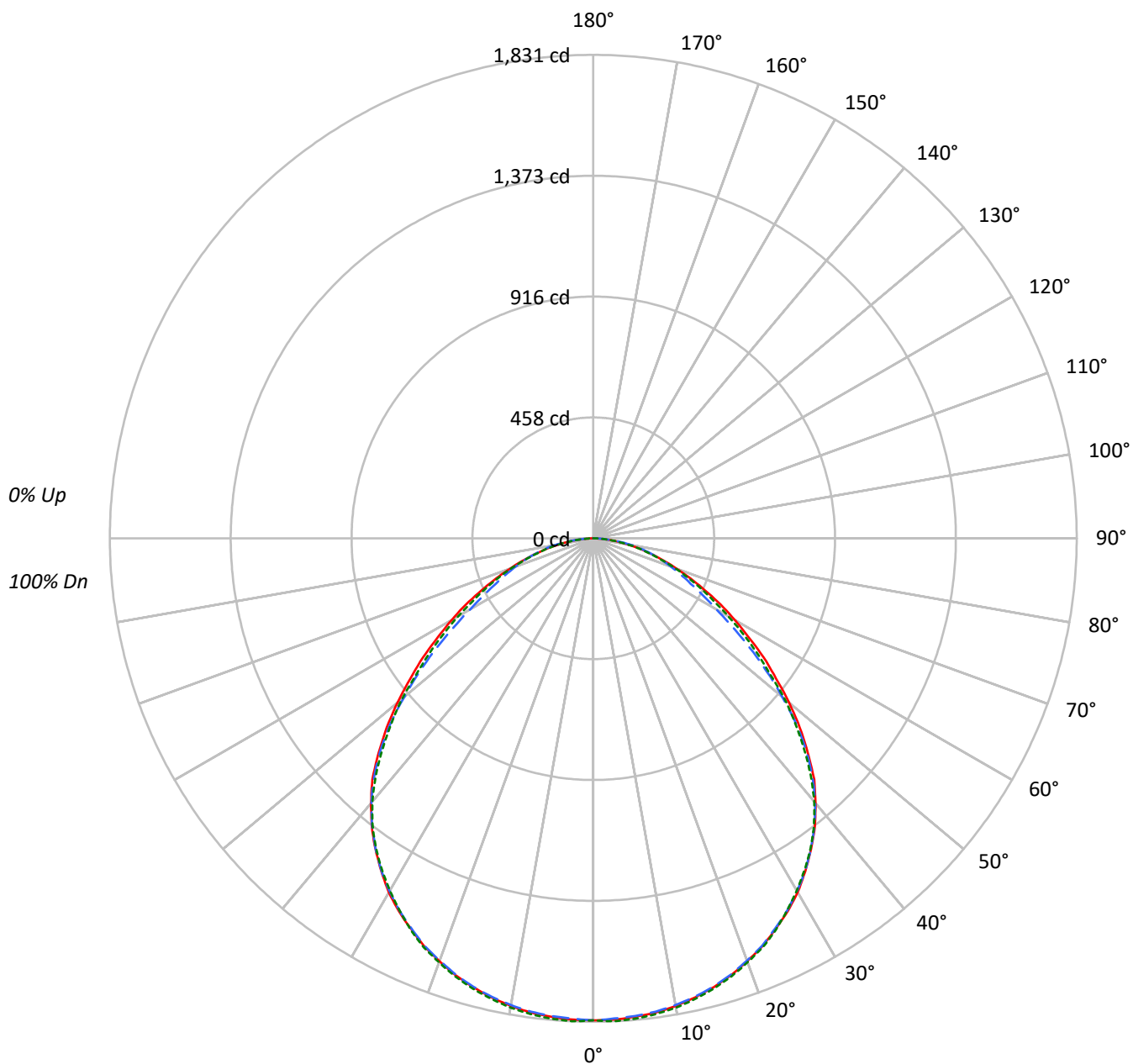
Lumens per Lamp: N/A
Luminaire Lumens: 4603.6 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: (L: 2 ' x W: 0 ' x H: 2 '
CIE Type: Direct

Input Watts (W): 35
Input Voltage (V): 120
Input Current (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

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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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72		
3	92	82	74	68	90	80	73	68	77	71	66	75	70	65	72	68	64	62		
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54		
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	47		
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41		
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37		
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33		
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30		
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27		

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°	173.2	3.8
10°-20°	497.1	10.8
20°-30°	752.7	16.3
30°-40°	897.3	19.5
40°-50°	876.8	19.0
50°-60°	670.4	14.6
60°-70°	430.5	9.4
70°-80°	239.5	5.2
80°-90°	66.1	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°	1423.0	30.9
0°-40°	2320.3	50.4
0°-60°	3867.6	84.0
0°-90°	4603.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4603.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1826	1826	1826	1826	1826	
5°	1820	1821	1816	1825	1827	173
15°	1760	1762	1758	1764	1766	497
25°	1633	1635	1630	1636	1637	753
35°	1438	1440	1437	1436	1434	899
45°	1150	1152	1141	1138	1129	884
55°	788	760	724	733	756	704
65°	468	432	407	420	449	466
75°	225	227	228	225	220	240
85°	49	57	58	56	49	60
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1826.0	1826.0	1826.0	1826.0	1826.0
2.5°	1824.8	1825.5	1820.8	1828.6	1831.2
5°	1819.6	1820.8	1816.3	1824.8	1826.7
7.5°	1811.8	1813.0	1808.5	1817.0	1817.7
10°	1798.7	1799.4	1795.4	1803.9	1805.1
12.5°	1781.2	1783.1	1778.6	1786.4	1786.9
15°	1760.0	1761.5	1758.1	1764.1	1766.0
17.5°	1735.4	1736.1	1732.8	1739.2	1739.9
20°	1704.5	1704.5	1701.9	1709.3	1709.3
22.5°	1673.2	1671.3	1670.6	1673.2	1677.2
25°	1632.9	1634.8	1630.2	1635.5	1636.7
27.5°	1593.7	1593.7	1589.7	1592.3	1589.0
30°	1548.6	1546.0	1543.4	1543.9	1540.8
32.5°	1494.3	1494.3	1493.1	1493.1	1489.1
35°	1438.3	1439.5	1436.8	1436.1	1434.2
37.5°	1378.0	1380.1	1375.4	1374.2	1372.8
40°	1309.4	1309.4	1307.5	1304.9	1301.6
42.5°	1238.2	1238.2	1229.9	1223.3	1218.8
45°	1149.5	1152.1	1140.9	1138.3	1129.3
47.5°	1061.2	1059.3	1044.4	1042.5	1037.2
50°	967.2	956.1	934.7	940.4	945.2
52.5°	873.3	859.5	828.2	834.6	842.4
55°	787.6	760.3	723.8	732.8	756.3
57.5°	698.1	661.6	625.0	642.1	671.3
60°	619.1	578.1	538.2	556.5	590.4
62.5°	543.4	499.8	467.7	485.3	514.0
65°	467.7	431.6	407.0	420.5	448.7
67.5°	398.4	374.2	357.4	363.8	386.6
70°	335.8	320.6	311.6	313.5	326.5
72.5°	276.2	272.4	269.1	269.1	270.3
75°	224.7	226.6	228.5	225.4	220.2
77.5°	177.0	183.4	188.2	181.5	175.1
80°	130.0	140.5	146.4	139.1	129.3
82.5°	88.7	100.6	102.5	98.0	86.9
85°	48.9	57.4	58.1	56.2	48.9
87.5°	18.3	21.6	23.5	21.6	19.0
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)