

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: P1046899

Luminaire Tested: 22PTR-45-PP3-L840-UNV-STD-W

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1046899
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737727)
Test Lab: INNOVATION CENTER
Issue Date: 7/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22PTR-45-PP3-L840-UNV-STD-W
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND PRISM LENS

Light Source:
Ballast/Driver: -

Summary

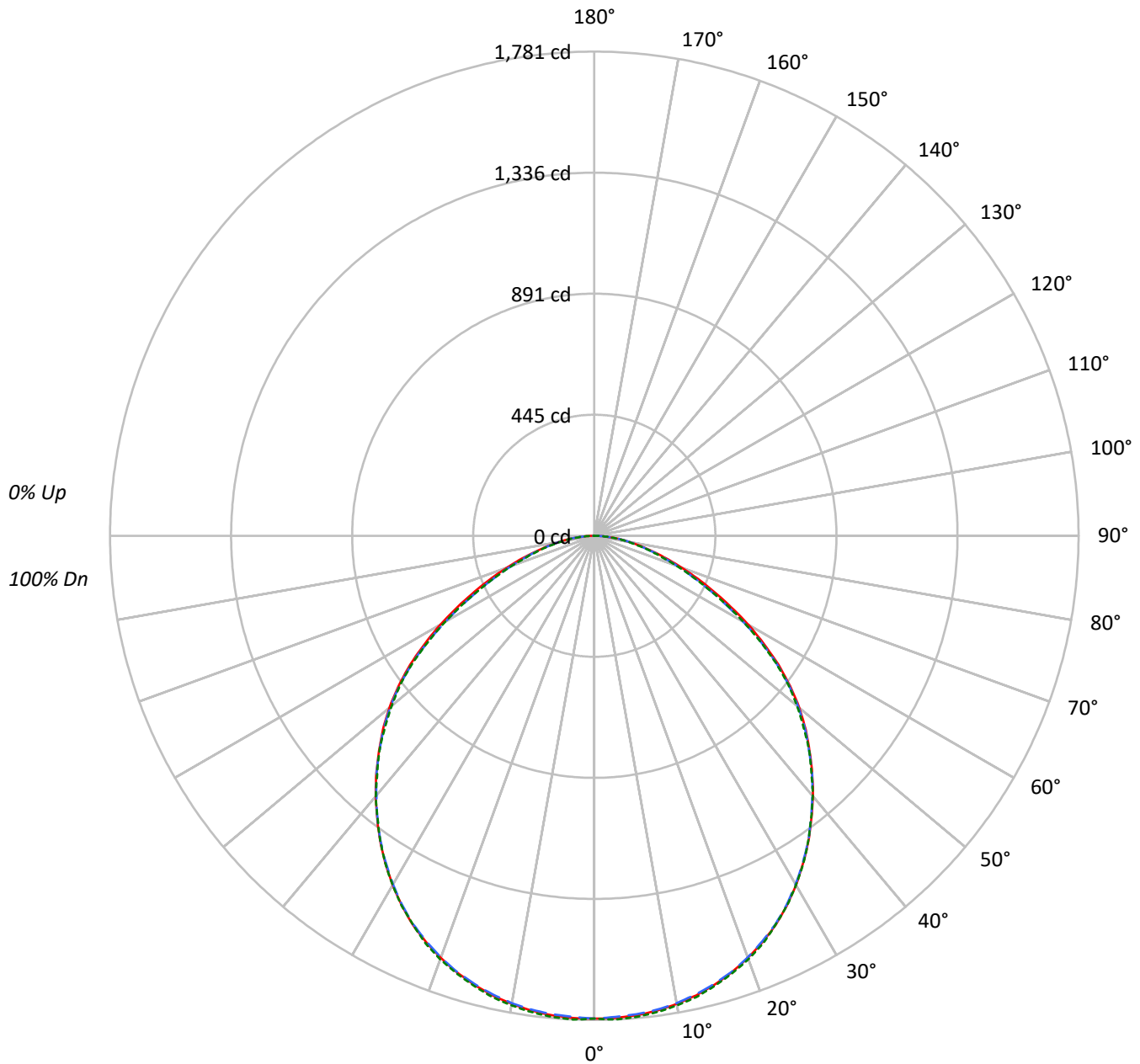
Lumens per Lamp: N/A
Luminaire Lumens: 4589.1 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.34
Luminous Opening: (L: 2 ' x W: 0 ' x H: 2 '
CIE Type: Direct

Input Watts (W): 35
Input Voltage (V): 120
Input Current (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	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	61		
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53		
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	52	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	42	40		
7	66	53	45	39	65	52	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32		
9	58	45	37	31	57	44	36	31	43	36	31	42	35	31	41	35	31	29		
10	54	41	34	28	53	41	33	28	40	33	28	39	33	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°	168.4	3.7
10°-20°	482.5	10.5
20°-30°	726.5	15.8
30°-40°	857.4	18.7
40°-50°	862.3	18.8
50°-60°	728.0	15.9
60°-70°	467.5	10.2
70°-80°	232.5	5.1
80°-90°	63.7	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°	1377.5	30.0
0°-40°	2234.9	48.7
0°-60°	3825.3	83.4
0°-90°	4589.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4589.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1776	1776	1776	1776	1776	
5°	1771	1771	1767	1775	1777	168
15°	1709	1710	1706	1714	1714	482
25°	1579	1579	1576	1579	1578	726
35°	1372	1373	1371	1372	1372	858
45°	1120	1124	1116	1118	1118	864
55°	826	826	817	814	814	735
65°	485	478	461	456	460	484
75°	222	221	214	212	209	241
85°	55	57	57	53	53	64
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1776.1	1776.1	1776.1	1776.1	1776.1
2.5°	1775.4	1776.1	1771.4	1779.9	1781.3
5°	1771.0	1771.4	1767.0	1775.4	1776.6
7.5°	1761.8	1762.5	1758.6	1766.3	1767.7
10°	1748.2	1750.4	1745.7	1752.9	1754.1
12.5°	1731.6	1732.3	1727.6	1736.1	1737.5
15°	1709.1	1709.6	1705.8	1713.6	1713.6
17.5°	1683.1	1683.8	1681.3	1687.8	1687.1
20°	1651.7	1653.6	1650.3	1654.8	1657.4
22.5°	1617.5	1618.2	1614.3	1620.1	1622.7
25°	1578.9	1579.3	1576.3	1579.3	1578.2
27.5°	1533.7	1534.8	1530.4	1533.7	1534.4
30°	1483.3	1486.6	1480.3	1482.8	1483.3
32.5°	1429.2	1431.1	1426.6	1427.3	1430.6
35°	1372.5	1373.2	1370.6	1371.8	1371.8
37.5°	1311.4	1313.9	1310.0	1311.8	1309.3
40°	1250.7	1248.1	1246.7	1248.1	1250.0
42.5°	1186.7	1187.4	1185.6	1184.2	1181.1
45°	1119.7	1123.7	1116.5	1117.9	1117.9
47.5°	1054.1	1054.6	1050.9	1046.9	1044.3
50°	983.9	983.9	979.2	976.1	972.2
52.5°	907.0	905.9	900.7	897.4	899.3
55°	826.5	825.8	816.8	813.6	814.3
57.5°	738.1	739.5	726.0	722.7	722.7
60°	653.8	647.2	631.8	627.3	633.0
62.5°	565.3	557.5	540.9	540.9	545.3
65°	485.4	478.3	461.0	456.3	460.3
67.5°	410.6	404.1	388.2	385.6	386.8
70°	339.7	334.0	324.2	318.4	320.5
72.5°	278.5	273.4	266.8	262.4	259.8
75°	222.3	221.1	214.1	212.0	209.4
77.5°	175.9	175.5	169.6	167.0	164.4
80°	132.1	131.4	130.2	126.3	124.4
82.5°	94.2	94.2	93.5	90.2	88.3
85°	54.8	56.7	56.7	53.4	53.4
87.5°	22.0	23.2	22.0	22.0	21.3
90°	0.0	0.0	0.0	0.0	0.0







— 0°-180° - - 45°-225° - - - 90°-270°





(END OF REPORT)