

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: P1046932

Luminaire Tested: 22PTR-50-PR1-L830-UNV-STD-W

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1046932
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737735)
Test Lab: INNOVATION CENTER
Issue Date: 7/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22PTR-50-PR1-L830-UNV-STD-W
Description: 5000 LUMEN 2X2 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND RIPPLE LENS

Light Source:
Ballast/Driver: -

Summary

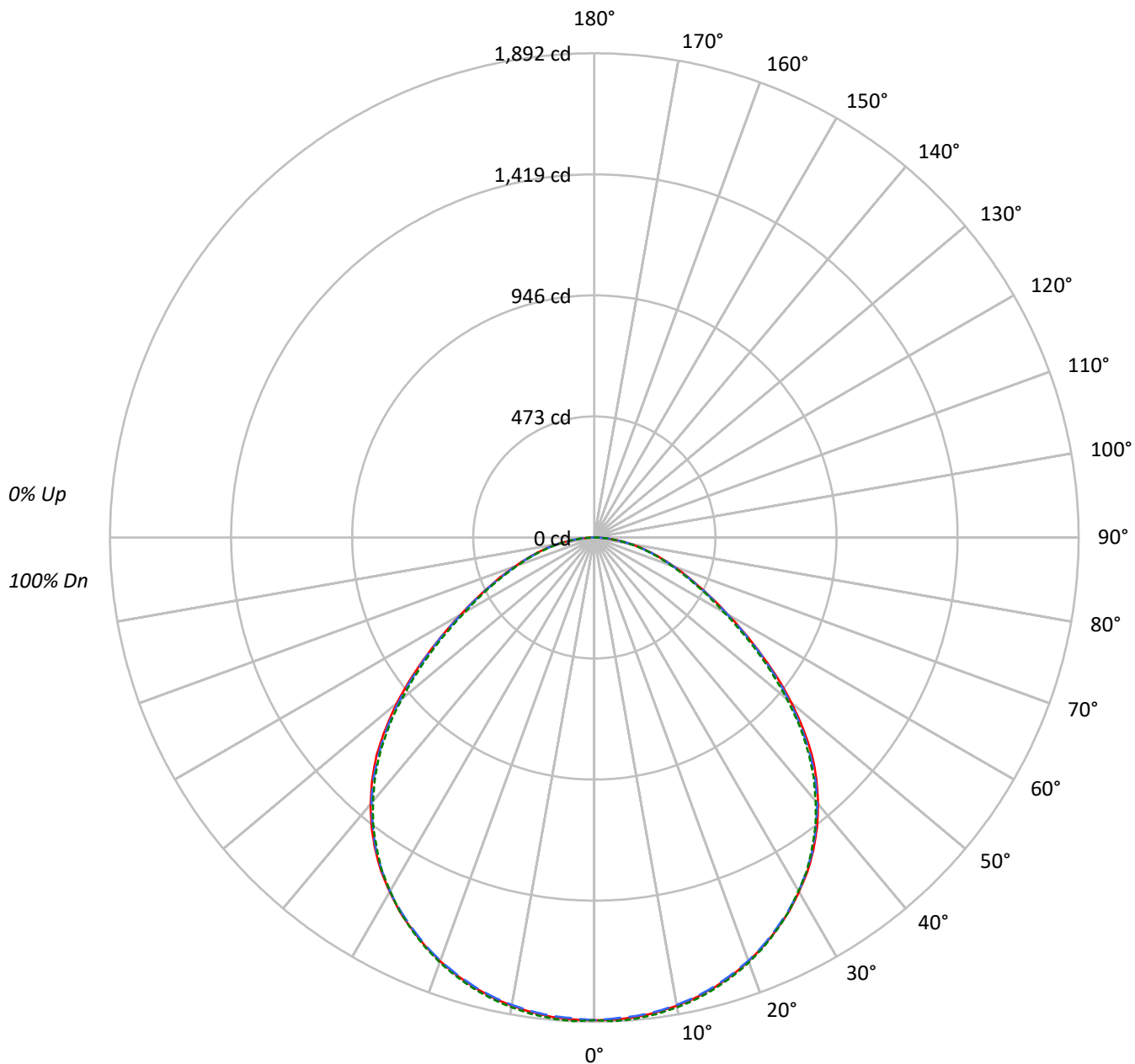
Lumens per Lamp: N/A
Luminaire Lumens: 4770.5 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.34
Luminous Opening: (L: 2 ' x W: 0 ' x H: 2 '
CIE Type: Direct

Input Watts (W): 39
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	88	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	90	80	73	68	78	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	45	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	39	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°	178.9	3.8
10°-20°	513.6	10.8
20°-30°	778.0	16.3
30°-40°	928.8	19.5
40°-50°	913.4	19.1
50°-60°	706.0	14.8
60°-70°	445.2	9.3
70°-80°	240.8	5.0
80°-90°	65.8	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°	1470.5	30.8
0°-40°	2399.3	50.3
0°-60°	4018.7	84.2
0°-90°	4770.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4770.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1886	1886	1886	1886	1886	
5°	1881	1882	1877	1885	1887	179
15°	1819	1819	1816	1822	1825	513
25°	1688	1690	1684	1690	1690	778
35°	1492	1492	1488	1486	1482	931
45°	1203	1198	1189	1180	1181	921
55°	794	801	791	778	776	713
65°	448	449	446	438	437	451
75°	231	228	225	226	221	245
85°	56	57	56	56	53	67
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1886.3	1886.3	1886.3	1886.3	1886.3
2.5°	1885.6	1886.3	1880.9	1889.8	1891.7
5°	1880.9	1881.6	1876.7	1884.8	1887.0
7.5°	1871.3	1872.8	1868.1	1876.2	1878.2
10°	1857.8	1859.3	1854.6	1862.7	1864.7
12.5°	1841.1	1841.6	1837.7	1845.0	1847.0
15°	1818.8	1819.3	1816.1	1822.0	1824.7
17.5°	1793.0	1793.7	1789.0	1796.4	1797.6
20°	1762.0	1762.5	1759.8	1765.9	1766.7
22.5°	1727.4	1728.9	1724.7	1730.1	1730.8
25°	1688.3	1689.5	1684.1	1689.5	1690.3
27.5°	1647.1	1647.5	1642.9	1647.1	1646.3
30°	1598.9	1603.1	1596.9	1595.5	1595.0
32.5°	1549.0	1549.5	1543.6	1542.2	1544.9
35°	1491.6	1492.1	1488.1	1486.2	1482.0
37.5°	1428.7	1428.7	1421.1	1419.8	1419.1
40°	1359.6	1358.9	1354.2	1349.6	1344.7
42.5°	1284.5	1286.0	1276.4	1268.3	1267.0
45°	1202.7	1198.0	1189.2	1179.8	1180.6
47.5°	1106.1	1107.4	1095.3	1087.7	1085.8
50°	1005.9	1005.9	994.6	986.5	982.3
52.5°	901.3	902.0	891.2	880.4	878.2
55°	794.4	801.0	791.0	778.2	775.5
57.5°	694.4	699.8	690.3	676.8	676.0
60°	601.8	602.3	599.6	586.8	583.4
62.5°	522.7	519.3	517.8	511.2	507.0
65°	448.3	449.0	445.6	438.0	436.8
67.5°	388.1	387.4	381.2	376.6	373.9
70°	329.2	327.2	324.5	320.6	317.9
72.5°	276.6	276.6	274.4	273.2	268.5
75°	230.7	228.0	225.3	226.5	221.1
77.5°	186.7	184.0	181.8	179.1	177.8
80°	141.2	138.5	139.3	135.1	134.6
82.5°	98.0	98.0	96.8	93.3	94.1
85°	56.0	56.7	55.5	56.0	53.3
87.5°	20.4	20.9	22.4	20.9	20.9
90°	0.0	0.0	0.0	0.0	0.0







— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)