

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: P1046848

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

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1046848
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2409-224-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22PTR-50-PLG-L830-UNV-STD-W
Description: 5000 LUMEN 2X2 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

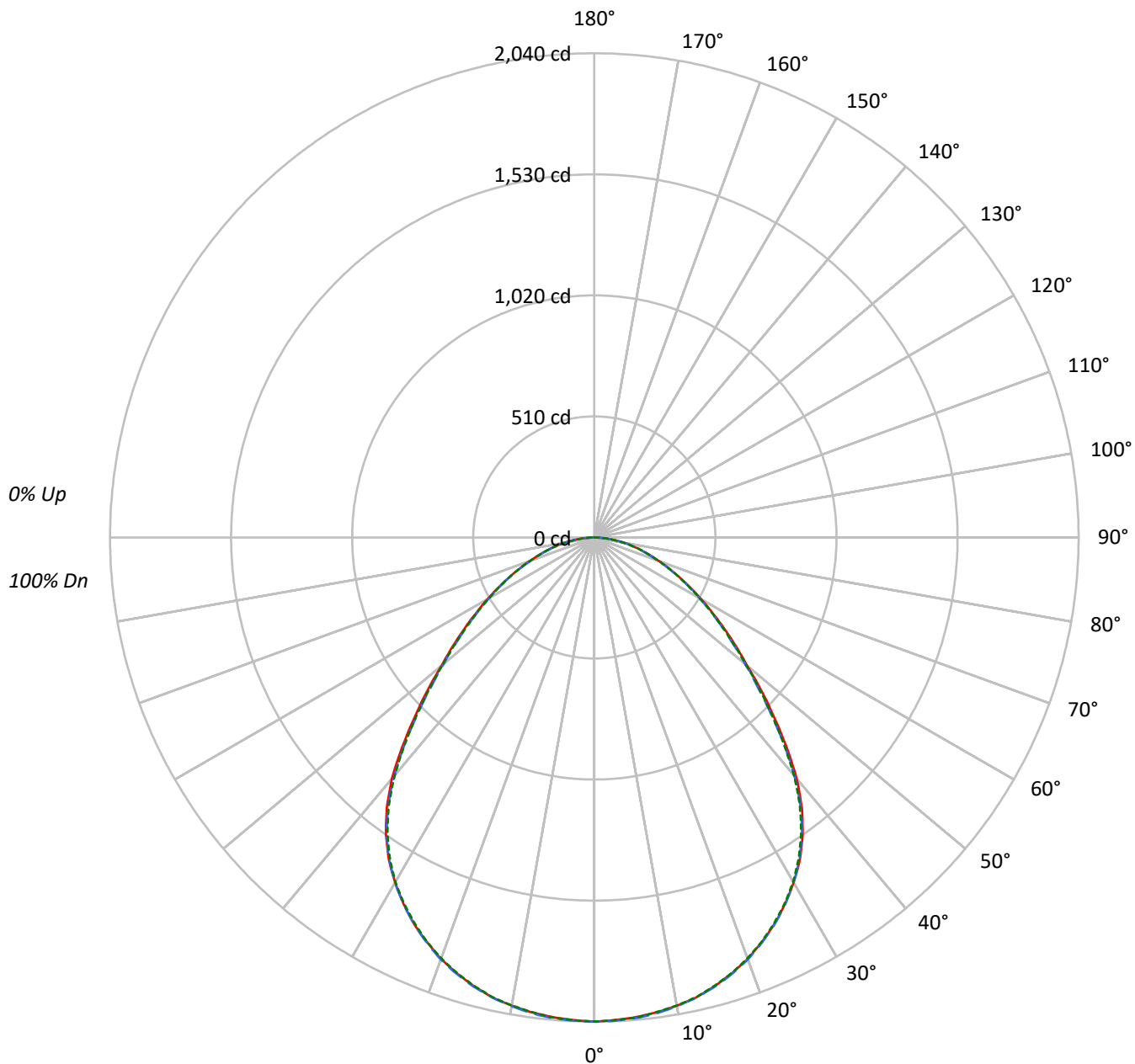
Lumens per Lamp: N/A
Luminaire Lumens: 4596.3 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: (L: 2 ' x W: 0 ' x H: 2 '
CIE Type: Direct

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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74		
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	69	66	64		
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56		
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49		
6	74	61	53	47	72	60	52	47	58	51	46	57	51	46	55	50	45	43		
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39		
8	64	51	43	38	62	51	43	38	49	42	37	48	42	37	47	41	37	35		
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32		
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29		

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°	193.1	4.2
10°-20°	552.6	12.0
20°-30°	826.8	18.0
30°-40°	947.3	20.6
40°-50°	819.3	17.8
50°-60°	593.0	12.9
60°-70°	390.6	8.5
70°-80°	212.6	4.6
80°-90°	60.9	1.3
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°	1572.6	34.2
0°-40°	2519.9	54.8
0°-60°	3932.2	85.6
0°-90°	4596.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4596.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2040	2040	2040	2040	2040	
5°	2028	2033	2033	2033	2030	193
15°	1957	1959	1960	1963	1956	552
25°	1797	1797	1798	1800	1792	826
35°	1530	1529	1526	1524	1519	951
45°	1070	1067	1052	1051	1057	828
55°	666	663	656	652	657	599
65°	394	397	391	388	392	393
75°	201	201	198	198	201	214
85°	54	54	54	55	48	62
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2039.8	2039.8	2039.8	2039.8	2039.8
2.5°	2035.5	2039.8	2038.3	2039.8	2035.5
5°	2028.2	2032.6	2032.6	2032.6	2029.7
7.5°	2018.1	2021.0	2022.4	2023.9	2016.6
10°	2003.6	2006.5	2005.1	2007.9	2002.2
12.5°	1984.8	1984.8	1986.2	1989.1	1983.3
15°	1957.3	1958.7	1960.2	1963.1	1955.8
17.5°	1925.4	1926.9	1928.3	1929.8	1924.0
20°	1889.2	1889.2	1892.1	1893.6	1886.3
22.5°	1844.4	1844.4	1847.3	1851.6	1842.9
25°	1796.6	1796.6	1798.0	1799.5	1792.2
27.5°	1740.1	1740.1	1741.6	1745.9	1737.2
30°	1679.3	1677.9	1679.3	1680.8	1675.0
32.5°	1611.3	1609.8	1608.4	1609.8	1602.6
35°	1530.2	1528.8	1525.9	1524.4	1518.6
37.5°	1436.1	1433.2	1427.4	1427.4	1421.6
40°	1326.1	1318.8	1311.6	1308.7	1307.3
42.5°	1198.7	1192.9	1182.8	1181.3	1181.3
45°	1069.8	1066.9	1052.5	1051.0	1056.8
47.5°	954.0	946.8	933.8	930.9	939.6
50°	839.7	841.1	829.5	825.2	833.9
52.5°	749.9	747.0	736.9	734.0	741.2
55°	665.9	663.0	655.8	651.5	657.3
57.5°	589.2	587.8	580.5	579.1	582.0
60°	519.7	518.3	512.5	511.0	512.5
62.5°	454.6	454.6	448.8	445.9	450.2
65°	393.8	396.7	390.9	388.0	392.3
67.5°	338.8	341.7	335.9	333.0	338.8
70°	286.6	289.5	283.7	280.9	286.6
72.5°	241.8	243.2	238.9	237.4	244.7
75°	201.2	201.2	198.3	198.3	201.2
77.5°	163.6	162.1	160.7	160.7	157.8
80°	125.9	124.5	124.5	124.5	120.2
82.5°	89.8	86.9	88.3	89.8	82.5
85°	53.6	53.6	53.6	55.0	47.8
87.5°	21.7	21.7	20.3	21.7	18.8
90°	0.0	0.0	0.0	0.0	0.0







— 0°-180° - - 45°-225° - - - 90°-270°





(END OF REPORT)