

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: P1046732

Luminaire Tested: 22PTR-50-PB1-L840-UNV-STD-W

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1046732
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737703)
Test Lab: INNOVATION CENTER
Issue Date: 7/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22PTR-50-PB1-L840-UNV-STD-W
Description: 5000 LUMEN 2X2 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND BEVEL LENS

Light Source:
Ballast/Driver: -

Summary

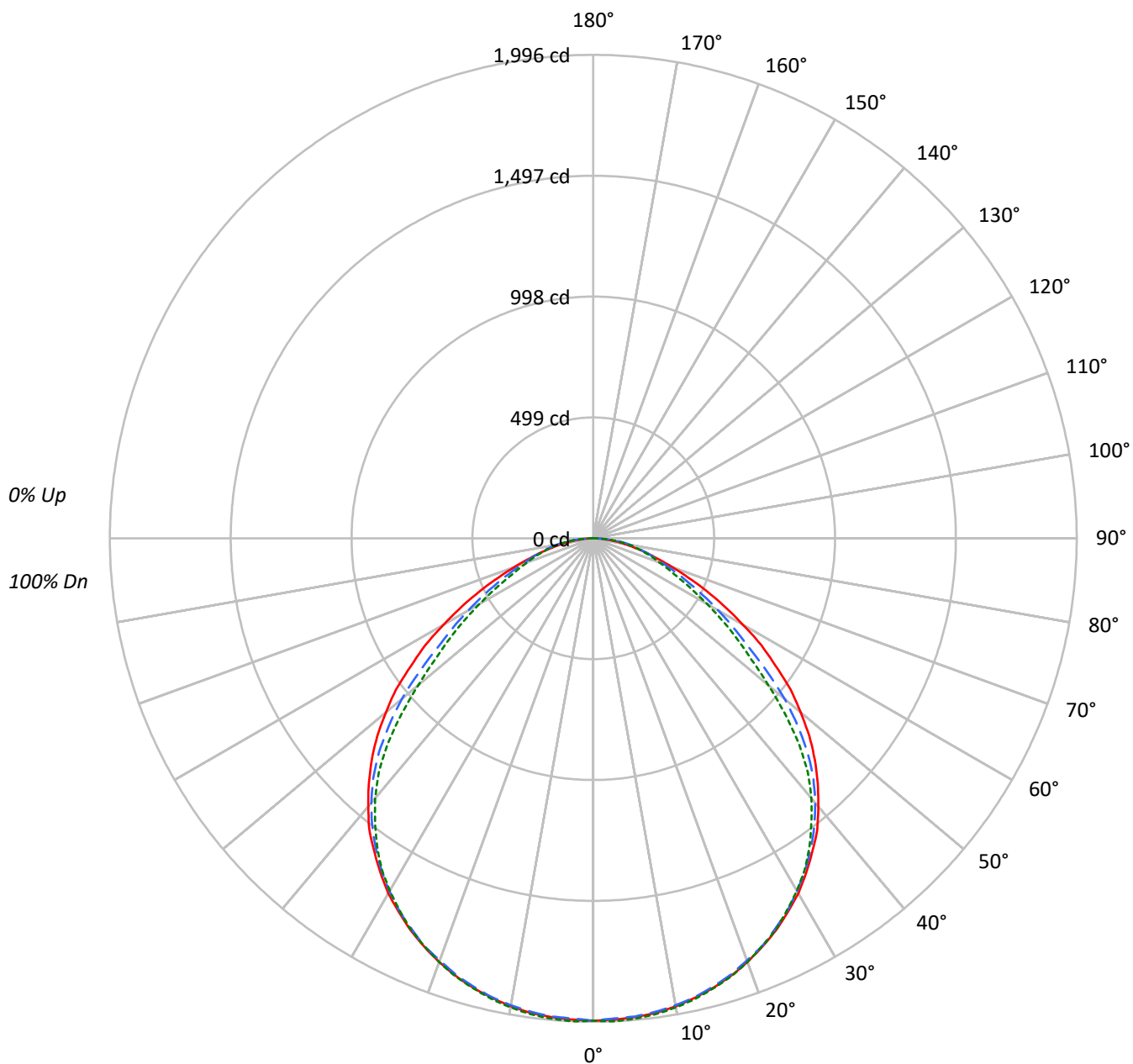
Lumens per Lamp: N/A
Luminaire Lumens: 4966.0 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: (L: 2 ' x W: 0 ' x H: 2 '
CIE Type: Direct

Input Watts (W): 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	93	90	91	89	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64	62		
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54		
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47		
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42		
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37		
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	33		
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30		
10	55	42	34	29	54	42	34	29	41	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°	188.8	3.8
10°-20°	541.8	10.9
20°-30°	820.8	16.5
30°-40°	978.0	19.7
40°-50°	956.4	19.3
50°-60°	723.4	14.6
60°-70°	444.4	8.9
70°-80°	236.8	4.8
80°-90°	75.6	1.5
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°	1551.5	31.2
0°-40°	2529.5	50.9
0°-60°	4209.2	84.8
0°-90°	4966.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4966.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1992	1992	1992	1992	1992	
5°	1984	1987	1982	1989	1992	189
15°	1921	1923	1916	1923	1923	542
25°	1786	1783	1778	1781	1783	822
35°	1578	1575	1565	1558	1556	987
45°	1293	1286	1252	1210	1200	995
55°	919	872	782	737	725	823
65°	517	475	436	402	390	514
75°	220	223	225	218	213	236
85°	49	64	78	74	69	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1991.5	1991.5	1991.5	1991.5	1991.5
2.5°	1989.2	1991.5	1984.1	1994.1	1996.4
5°	1984.1	1986.7	1981.8	1989.2	1991.5
7.5°	1976.9	1976.9	1972.0	1979.2	1981.8
10°	1962.2	1962.2	1957.3	1964.5	1967.1
12.5°	1942.7	1942.7	1940.1	1945.0	1947.6
15°	1920.6	1922.9	1915.7	1922.9	1922.9
17.5°	1893.6	1891.2	1888.7	1893.6	1896.1
20°	1861.7	1861.7	1854.5	1859.4	1861.7
22.5°	1824.9	1824.9	1822.6	1824.9	1822.6
25°	1785.8	1783.2	1778.3	1780.9	1783.2
27.5°	1739.3	1739.3	1734.4	1734.4	1731.8
30°	1692.7	1690.1	1682.9	1678.0	1680.4
32.5°	1636.4	1633.8	1626.6	1621.7	1624.0
35°	1577.5	1575.2	1565.4	1557.9	1555.6
37.5°	1518.9	1511.4	1499.1	1489.3	1479.5
40°	1445.3	1437.8	1425.8	1403.6	1401.1
42.5°	1371.8	1364.6	1344.8	1318.0	1310.5
45°	1293.3	1286.1	1251.7	1210.0	1200.2
47.5°	1210.0	1197.9	1143.9	1092.5	1072.9
50°	1117.2	1095.0	1031.3	965.2	943.0
52.5°	1026.4	987.3	904.0	845.1	823.2
55°	918.6	872.1	781.5	737.3	725.0
57.5°	823.2	759.4	685.9	641.9	632.1
60°	712.9	654.0	595.4	556.0	541.3
62.5°	612.3	560.9	512.0	477.6	460.6
65°	516.9	475.3	436.2	401.7	389.6
67.5°	423.8	401.7	369.8	343.1	335.6
70°	345.4	333.0	311.2	298.8	289.1
72.5°	274.4	279.3	264.6	259.7	252.3
75°	220.4	223.0	225.3	218.1	213.2
77.5°	166.6	178.7	188.5	183.6	178.7
80°	125.0	137.1	154.3	147.1	147.1
82.5°	85.6	100.6	115.2	110.3	107.8
85°	49.1	63.8	78.4	73.6	68.7
87.5°	19.5	31.9	34.2	34.2	31.9
90°	0.0	0.0	0.0	0.0	0.0







— 0°-180° - - 45°-225° - - - 90°-270°





(END OF REPORT)