

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: P1046942

Luminaire Tested: 22PTR-50-PR1-L840-UNV-STD-W

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1046942
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-L840-UNV-STD-W
Description: 5000 LUMEN 2X2 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND RIPPLE LENS

Light Source:
Ballast/Driver: -

Summary

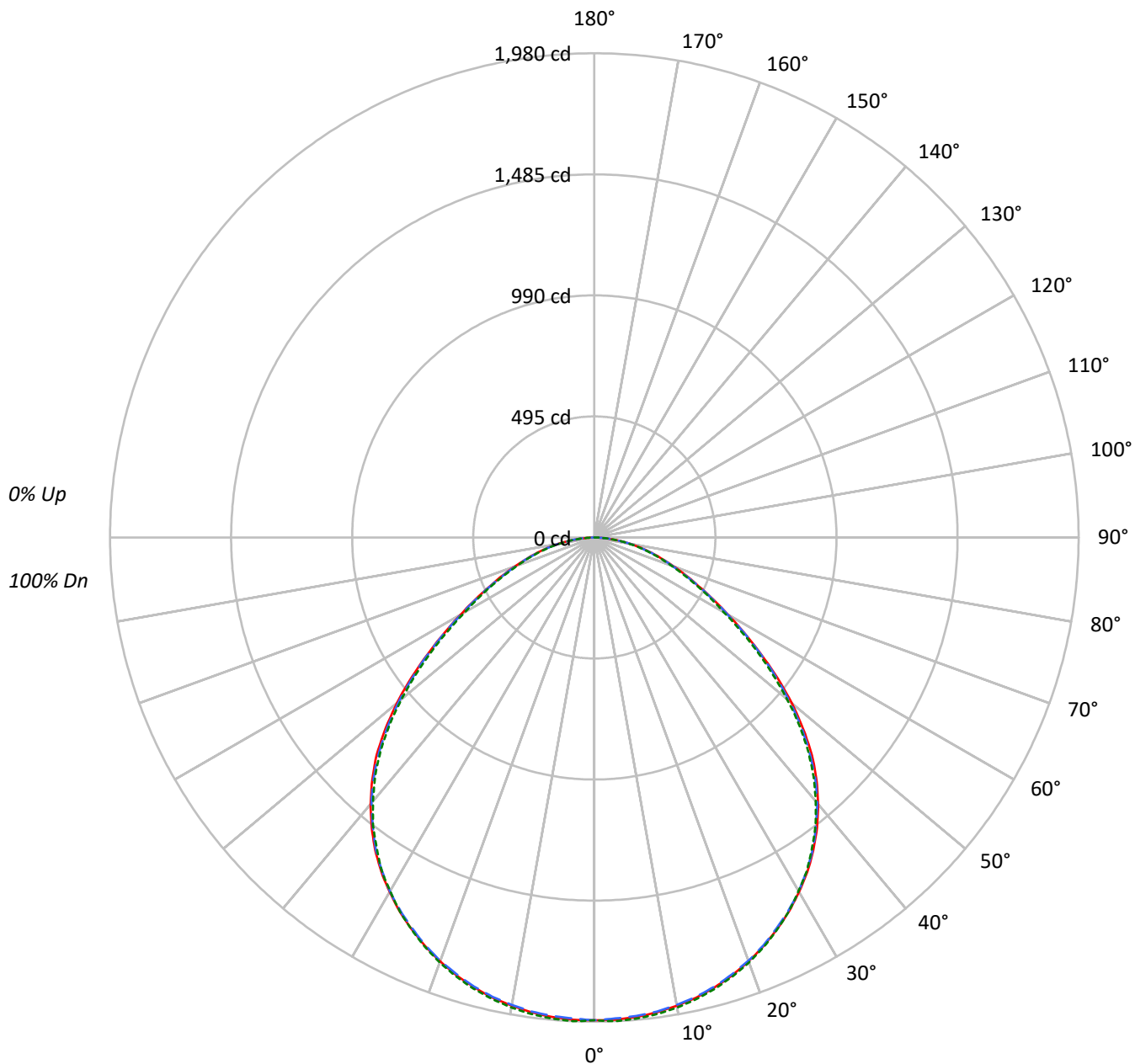
Lumens per Lamp: N/A
Luminaire Lumens: 4993.6 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.34
Luminous Opening: (L: 2 ' x W: 0 ' x H: 2 '
CIE Type: Direct

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°	187.3	3.8
10°-20°	537.6	10.8
20°-30°	814.4	16.3
30°-40°	972.2	19.5
40°-50°	956.1	19.1
50°-60°	739.0	14.8
60°-70°	466.0	9.3
70°-80°	252.1	5.0
80°-90°	68.8	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°	1539.3	30.8
0°-40°	2511.6	50.3
0°-60°	4206.7	84.2
0°-90°	4993.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4993.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1974	1974	1974	1974	1974	
5°	1969	1970	1964	1973	1975	187
15°	1904	1904	1901	1907	1910	537
25°	1767	1769	1763	1769	1769	815
35°	1561	1562	1558	1556	1551	975
45°	1259	1254	1245	1235	1236	964
55°	832	838	828	815	812	746
65°	469	470	466	458	457	472
75°	241	239	236	237	231	256
85°	59	59	58	59	56	70
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1974.5	1974.5	1974.5	1974.5	1974.5
2.5°	1973.8	1974.5	1968.9	1978.1	1980.2
5°	1968.9	1969.6	1964.5	1973.0	1975.3
7.5°	1958.8	1960.4	1955.5	1964.0	1966.0
10°	1944.7	1946.2	1941.4	1949.8	1951.9
12.5°	1927.2	1927.7	1923.6	1931.3	1933.4
15°	1903.8	1904.3	1901.0	1907.2	1910.0
17.5°	1876.8	1877.6	1872.7	1880.4	1881.7
20°	1844.4	1844.9	1842.1	1848.5	1849.3
22.5°	1808.2	1809.7	1805.3	1811.0	1811.8
25°	1767.3	1768.6	1762.9	1768.6	1769.3
27.5°	1724.1	1724.6	1719.7	1724.1	1723.3
30°	1673.7	1678.1	1671.6	1670.1	1669.6
32.5°	1621.5	1622.0	1615.8	1614.3	1617.1
35°	1561.3	1561.8	1557.7	1555.7	1551.3
37.5°	1495.5	1495.5	1487.5	1486.2	1485.5
40°	1423.2	1422.5	1417.6	1412.7	1407.5
42.5°	1344.6	1346.1	1336.1	1327.6	1326.3
45°	1258.9	1254.0	1244.8	1235.0	1235.8
47.5°	1157.9	1159.2	1146.6	1138.6	1136.5
50°	1053.0	1053.0	1041.1	1032.6	1028.3
52.5°	943.4	944.2	932.9	921.6	919.3
55°	831.6	838.5	828.0	814.6	811.8
57.5°	726.9	732.6	722.5	708.4	707.6
60°	630.0	630.5	627.7	614.3	610.7
62.5°	547.2	543.6	542.0	535.1	530.7
65°	469.3	470.0	466.4	458.5	457.2
67.5°	406.3	405.5	399.1	394.2	391.4
70°	344.6	342.5	339.7	335.6	332.7
72.5°	289.5	289.5	287.2	285.9	281.0
75°	241.4	238.6	235.8	237.1	231.4
77.5°	195.4	192.6	190.3	187.5	186.2
80°	147.9	145.0	145.8	141.4	140.9
82.5°	102.6	102.6	101.3	97.7	98.5
85°	58.6	59.4	58.1	58.6	55.8
87.5°	21.3	21.9	23.4	21.9	21.9
90°	0.0	0.0	0.0	0.0	0.0





— 0°-180° - - 45°-225° - - - 90°-270°





(END OF REPORT)