

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: P1046941

Luminaire Tested: 22PTR-45-PR1-L840-UNV-STD-W

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1046941
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-45-PR1-L840-UNV-STD-W
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND RIPPLE LENS

Light Source:
Ballast/Driver: -

Summary

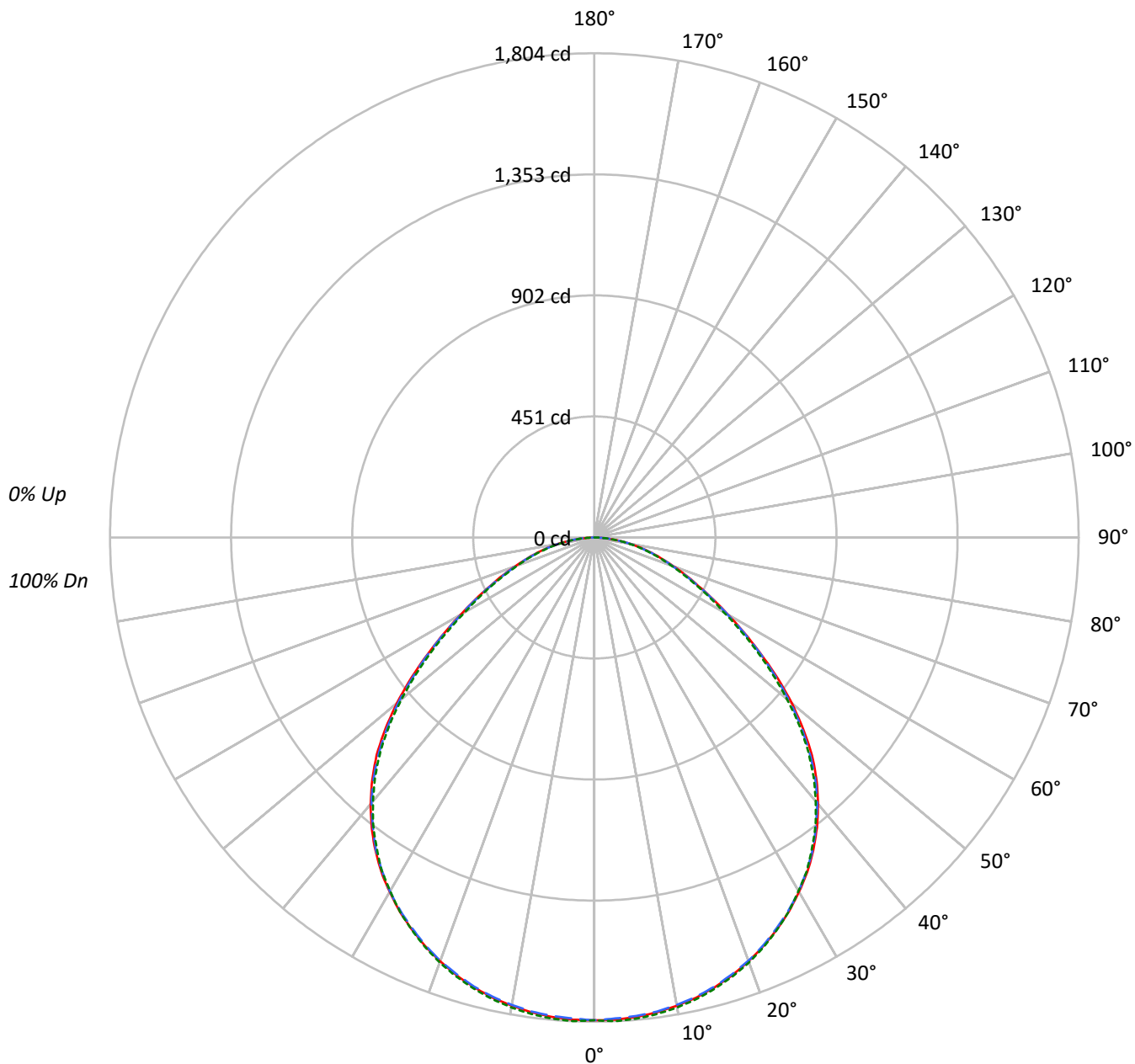
Lumens per Lamp: N/A
Luminaire Lumens: 4549.3 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.34
Luminous Opening: (L: 2 ' x W: 0 ' x H: 2 '
CIE Type: Direct

Input Watts (W): 35
Input Voltage (V): 120
Input Current (A_{in}): 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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	110	105	101	98	107	103	99	96		99	96	93			95	92	90			91
2	100	93	86	81	98	91	85	80		87	82	78			84	80	76			81
3	92	82	74	68	90	80	73	68		78	71	66			75	70	65			72
4	85	73	65	58	82	72	64	58		69	63	57			67	61	56			65
5	78	66	57	51	76	65	56	50		62	55	50			61	54	49			59
6	72	59	51	45	70	58	50	44		57	49	44			55	49	44			53
7	67	54	45	40	65	53	45	39		52	44	39			50	44	39			49
8	62	49	41	35	61	49	41	35		47	40	35			46	40	35			45
9	58	45	37	32	57	45	37	32		44	37	32			43	36	32			42
10	55	42	34	29	54	41	34	29		40	34	29			39	33	29			39

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°	170.6	3.8
10°-20°	489.8	10.8
20°-30°	742.0	16.3
30°-40°	885.7	19.5
40°-50°	871.1	19.1
50°-60°	673.3	14.8
60°-70°	424.5	9.3
70°-80°	229.6	5.0
80°-90°	62.7	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°	1402.4	30.8
0°-40°	2288.1	50.3
0°-60°	3832.4	84.2
0°-90°	4549.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4549.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1799	1799	1799	1799	1799	
5°	1794	1794	1790	1798	1800	171
15°	1734	1735	1732	1738	1740	490
25°	1610	1611	1606	1611	1612	742
35°	1422	1423	1419	1417	1413	888
45°	1147	1142	1134	1125	1126	878
55°	758	764	754	742	740	680
65°	428	428	425	418	416	430
75°	220	217	215	216	211	234
85°	53	54	53	53	51	64
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1798.9	1798.9	1798.9	1798.9	1798.9
2.5°	1798.2	1798.9	1793.7	1802.1	1804.0
5°	1793.7	1794.4	1789.7	1797.5	1799.6
7.5°	1784.6	1786.0	1781.5	1789.3	1791.1
10°	1771.7	1773.1	1768.6	1776.4	1778.2
12.5°	1755.8	1756.2	1752.5	1759.5	1761.4
15°	1734.4	1734.9	1731.9	1737.5	1740.1
17.5°	1709.8	1710.5	1706.1	1713.1	1714.3
20°	1680.3	1680.8	1678.2	1684.1	1684.8
22.5°	1647.3	1648.7	1644.7	1649.9	1650.6
25°	1610.1	1611.2	1606.1	1611.2	1611.9
27.5°	1570.7	1571.2	1566.7	1570.7	1570.0
30°	1524.8	1528.8	1522.9	1521.5	1521.0
32.5°	1477.2	1477.7	1472.1	1470.7	1473.2
35°	1422.4	1422.9	1419.1	1417.3	1413.3
37.5°	1362.4	1362.4	1355.2	1354.0	1353.3
40°	1296.6	1295.9	1291.5	1287.0	1282.3
42.5°	1224.9	1226.3	1217.2	1209.5	1208.3
45°	1146.9	1142.5	1134.0	1125.1	1125.8
47.5°	1054.9	1056.0	1044.6	1037.3	1035.4
50°	959.3	959.3	948.5	940.8	936.8
52.5°	859.5	860.2	849.9	839.6	837.5
55°	757.6	763.9	754.3	742.1	739.6
57.5°	662.2	667.4	658.3	645.4	644.7
60°	573.9	574.4	571.8	559.6	556.4
62.5°	498.5	495.2	493.8	487.5	483.5
65°	427.5	428.2	424.9	417.7	416.5
67.5°	370.1	369.4	363.6	359.1	356.5
70°	313.9	312.0	309.5	305.7	303.1
72.5°	263.8	263.8	261.7	260.5	256.0
75°	220.0	217.4	214.8	216.0	210.8
77.5°	178.0	175.5	173.4	170.8	169.6
80°	134.7	132.1	132.8	128.8	128.4
82.5°	93.5	93.5	92.3	89.0	89.7
85°	53.4	54.1	52.9	53.4	50.8
87.5°	19.4	19.9	21.3	19.9	19.9
90°	0.0	0.0	0.0	0.0	0.0







— 0°-180° - - 45°-225° - - - 90°-270°



(END OF REPORT)