

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: P1046731

Luminaire Tested: 22PTR-45-PB1-L840-UNV-STD-W

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1046731
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-45-PB1-L840-UNV-STD-W
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND BEVEL LENS

Light Source:
Ballast/Driver: -

Summary

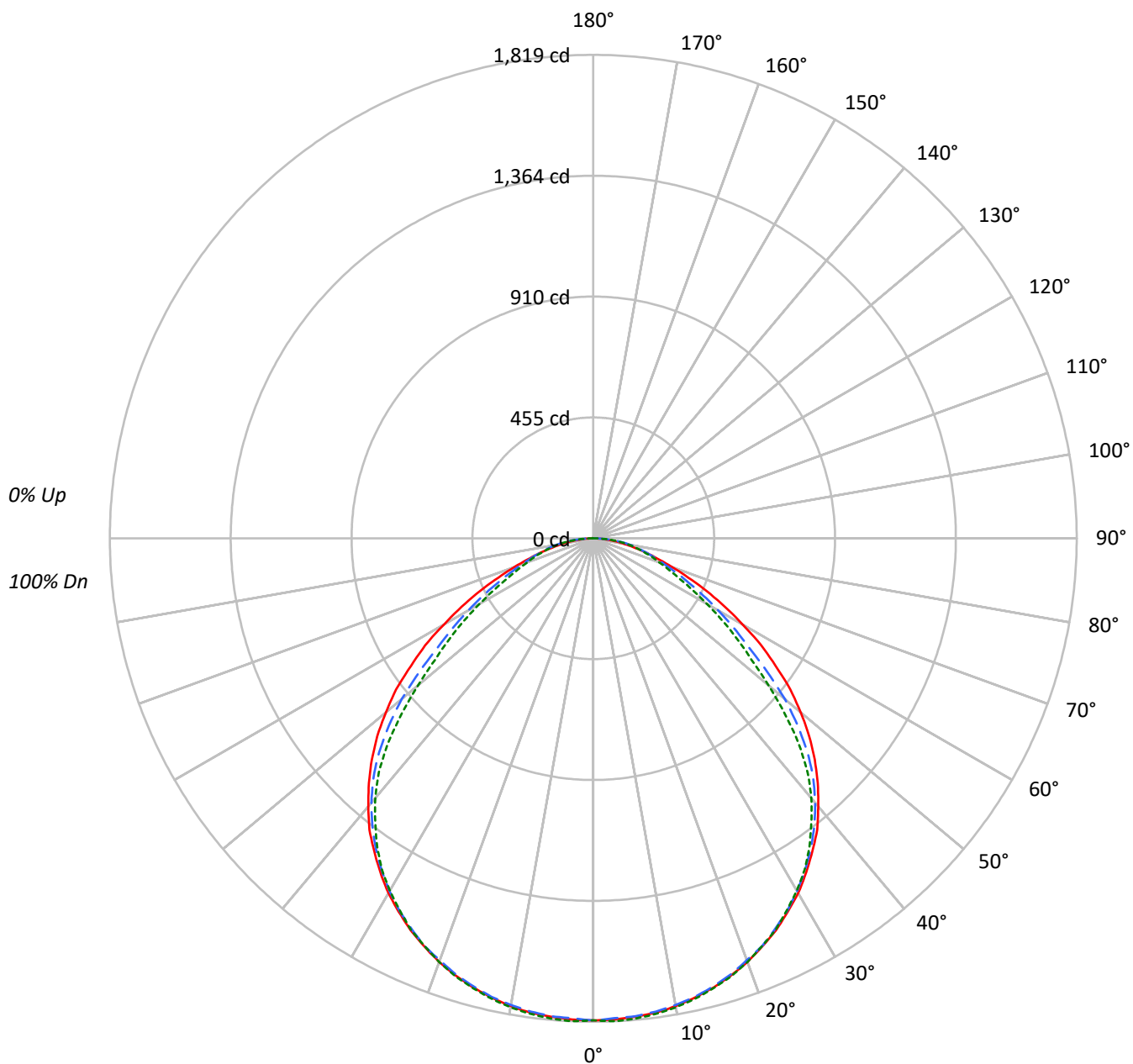
Lumens per Lamp: N/A
Luminaire Lumens: 4524.0 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: (L: 2 ' x W: 0 ' x H: 2 '
CIE Type: Direct

Input Watts (W): 35
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

TEST NUMBER: P1046731

CATALOG NUMBER: 22PTR-45-PB1-L840-UNV-STD-W

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: -

TEST NUMBER: P1046731

CATALOG NUMBER: 22PTR-45-PB1-L840-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.0	3.8
10°-20°	493.6	10.9
20°-30°	747.7	16.5
30°-40°	891.0	19.7
40°-50°	871.3	19.3
50°-60°	659.0	14.6
60°-70°	404.9	8.9
70°-80°	215.7	4.8
80°-90°	68.8	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°	1413.4	31.2
0°-40°	2304.3	50.9
0°-60°	3834.6	84.8
0°-90°	4524.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4524.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1814	1814	1814	1814	1814	
5°	1808	1810	1805	1812	1814	172
15°	1750	1752	1745	1752	1752	494
25°	1627	1624	1620	1622	1624	749
35°	1437	1435	1426	1419	1417	899
45°	1178	1172	1140	1102	1093	906
55°	837	794	712	672	660	749
65°	471	433	397	366	355	469
75°	201	203	205	199	194	215
85°	45	58	72	67	63	54
90°	0	0	0	0	0	

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CATALOG NUMBER: 22PTR-45-PB1-L840-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1814.3	1814.3	1814.3	1814.3	1814.3
2.5°	1812.2	1814.3	1807.5	1816.6	1818.7
5°	1807.5	1809.8	1805.4	1812.2	1814.3
7.5°	1800.9	1800.9	1796.5	1803.0	1805.4
10°	1787.6	1787.6	1783.1	1789.7	1792.0
12.5°	1769.8	1769.8	1767.4	1771.9	1774.2
15°	1749.6	1751.7	1745.2	1751.7	1751.7
17.5°	1725.0	1722.9	1720.6	1725.0	1727.4
20°	1696.0	1696.0	1689.4	1693.9	1696.0
22.5°	1662.5	1662.5	1660.4	1662.5	1660.4
25°	1626.9	1624.5	1620.1	1622.4	1624.5
27.5°	1584.5	1584.5	1580.0	1580.0	1577.7
30°	1542.0	1539.7	1533.1	1528.7	1530.8
32.5°	1490.7	1488.4	1481.8	1477.4	1479.5
35°	1437.1	1435.0	1426.1	1419.3	1417.2
37.5°	1383.7	1376.9	1365.6	1356.7	1347.8
40°	1316.7	1309.9	1298.9	1278.7	1276.4
42.5°	1249.7	1243.1	1225.1	1200.7	1193.9
45°	1178.2	1171.6	1140.3	1102.3	1093.4
47.5°	1102.3	1091.3	1042.1	995.2	977.4
50°	1017.7	997.6	939.5	879.3	859.1
52.5°	935.0	899.4	823.5	769.9	749.9
55°	836.9	794.5	712.0	671.7	660.4
57.5°	749.9	691.8	624.8	584.8	575.9
60°	649.4	595.8	542.4	506.5	493.2
62.5°	557.8	511.0	466.5	435.1	419.6
65°	470.9	433.0	397.3	365.9	354.9
67.5°	386.1	365.9	336.9	312.5	305.7
70°	314.6	303.4	283.5	272.2	263.3
72.5°	250.0	254.4	241.1	236.6	229.8
75°	200.8	203.1	205.2	198.7	194.2
77.5°	151.8	162.8	171.7	167.3	162.8
80°	113.9	124.9	140.6	134.0	134.0
82.5°	78.0	91.6	105.0	100.5	98.2
85°	44.7	58.1	71.5	67.0	62.6
87.5°	17.8	29.1	31.2	31.2	29.1
90°	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report







— 0°-180° - - 45°-225° - - - 90°-270°



(END OF REPORT)