

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: P1046815

Luminaire Tested: 22PTR-45-PL1-L840-UNV-STD-W

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1046815
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737719)
Test Lab: INNOVATION CENTER
Issue Date: 7/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22PTR-45-PL1-L840-UNV-STD-W
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

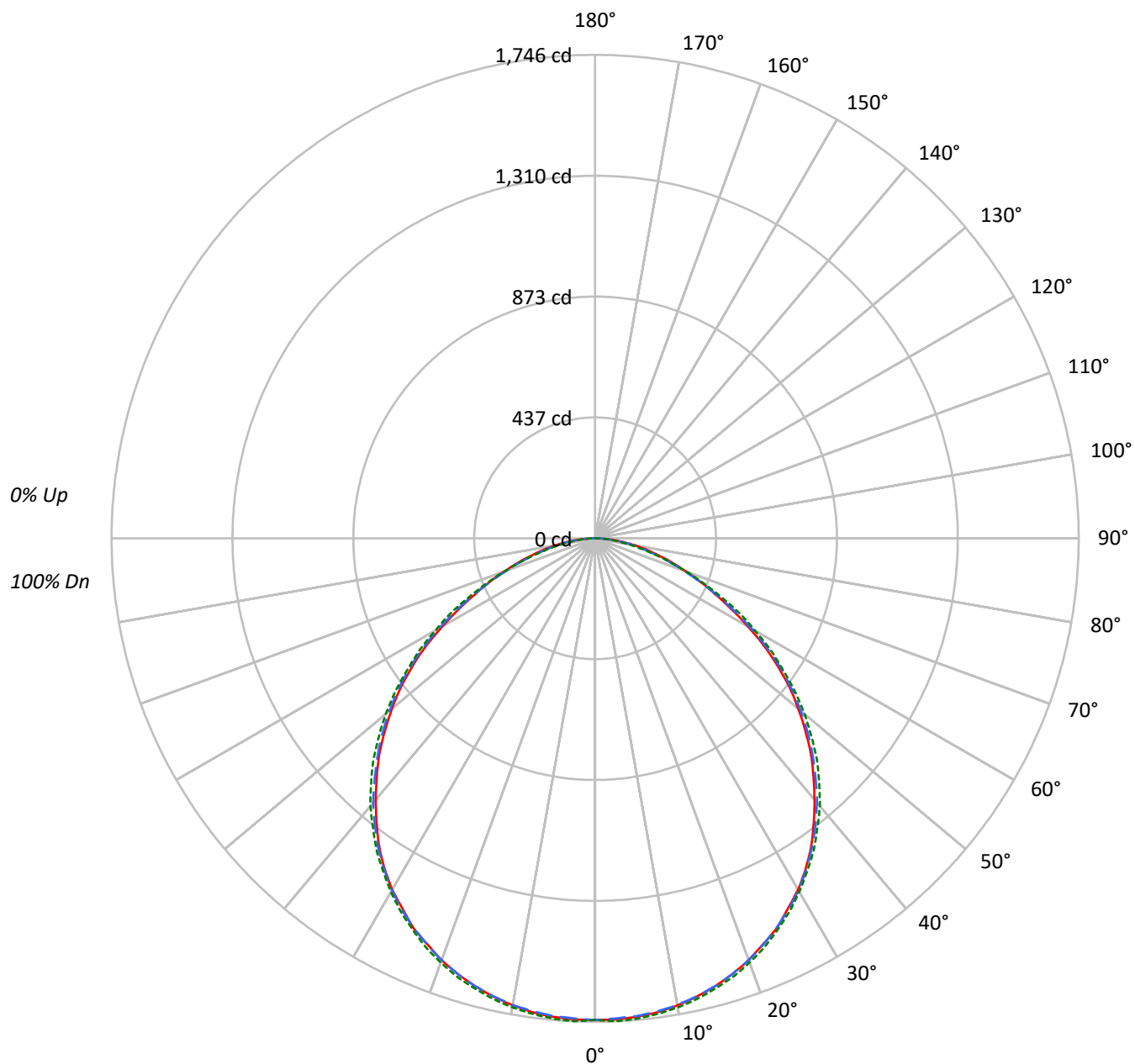
Lumens per Lamp: N/A
Luminaire Lumens: 4587.1 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: (L: 2 ' x W: 0 ' x H: 2 '
CIE Type: Direct

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	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	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72		
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61		
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	52		
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	46		
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40		
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35		
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32		
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29		
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26		

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°	165.1	3.6
10°-20°	473.4	10.3
20°-30°	716.1	15.6
30°-40°	853.6	18.6
40°-50°	858.4	18.7
50°-60°	728.5	15.9
60°-70°	485.0	10.6
70°-80°	242.2	5.3
80°-90°	64.8	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°	1354.6	29.5
0°-40°	2208.3	48.1
0°-60°	3795.1	82.7
0°-90°	4587.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4587.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1740	1740	1740	1740	1740	
5°	1735	1736	1732	1740	1741	165
15°	1675	1677	1674	1681	1683	473
25°	1553	1553	1551	1558	1560	714
35°	1360	1361	1365	1374	1376	848
45°	1102	1104	1111	1126	1132	848
55°	805	810	818	825	827	717
65°	478	482	483	490	502	479
75°	236	233	222	217	218	253
85°	61	60	56	52	48	71
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1740.2	1740.2	1740.2	1740.2	1740.2
2.5°	1738.8	1740.2	1735.5	1744.0	1746.1
5°	1735.1	1735.5	1731.8	1739.5	1741.4
7.5°	1726.6	1727.3	1723.3	1731.8	1733.0
10°	1713.0	1714.4	1711.2	1718.9	1720.8
12.5°	1695.7	1697.6	1694.3	1702.7	1704.1
15°	1675.1	1677.0	1674.4	1681.4	1682.8
17.5°	1649.8	1651.2	1649.8	1656.3	1660.1
20°	1621.4	1621.4	1621.4	1627.3	1630.6
22.5°	1586.1	1589.3	1587.9	1595.7	1598.9
25°	1553.3	1553.3	1551.2	1558.4	1559.6
27.5°	1507.3	1512.5	1512.0	1518.4	1519.8
30°	1465.4	1466.8	1467.5	1472.0	1474.5
32.5°	1414.6	1415.7	1417.8	1424.2	1424.9
35°	1359.7	1361.2	1364.9	1374.5	1375.9
37.5°	1296.0	1303.1	1306.3	1316.6	1317.8
40°	1232.1	1236.5	1246.4	1257.1	1262.3
42.5°	1166.9	1172.1	1177.9	1192.7	1197.4
45°	1101.8	1103.7	1110.9	1125.7	1132.3
47.5°	1029.7	1035.5	1041.8	1054.7	1058.7
50°	957.5	963.8	967.8	979.3	987.0
52.5°	884.6	890.5	894.9	902.0	909.7
55°	804.7	810.4	817.6	825.4	827.2
57.5°	723.4	729.8	734.5	742.7	751.1
60°	636.3	643.6	649.9	657.6	666.1
62.5°	555.2	558.3	564.8	577.7	589.9
65°	477.7	481.7	482.8	490.1	502.3
67.5°	413.3	413.3	407.4	410.0	423.6
70°	345.6	343.0	338.5	336.0	347.0
72.5°	290.7	287.5	277.9	273.4	279.3
75°	235.9	232.6	222.3	217.2	217.9
77.5°	189.5	184.4	175.9	167.0	165.2
80°	143.8	141.7	133.5	125.1	118.5
82.5°	101.9	97.5	92.8	87.6	82.5
85°	61.1	60.0	55.5	52.2	47.8
87.5°	25.1	25.1	23.9	22.5	21.3
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)