

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: P1046983

Luminaire Tested: 22PTR-45-PW1-L840-UNV-STD-W

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1046983
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737743)
Test Lab: INNOVATION CENTER
Issue Date: 7/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22PTR-45-PW1-L840-UNV-STD-W
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND WAVES LENS

Light Source:
Ballast/Driver: -

Summary

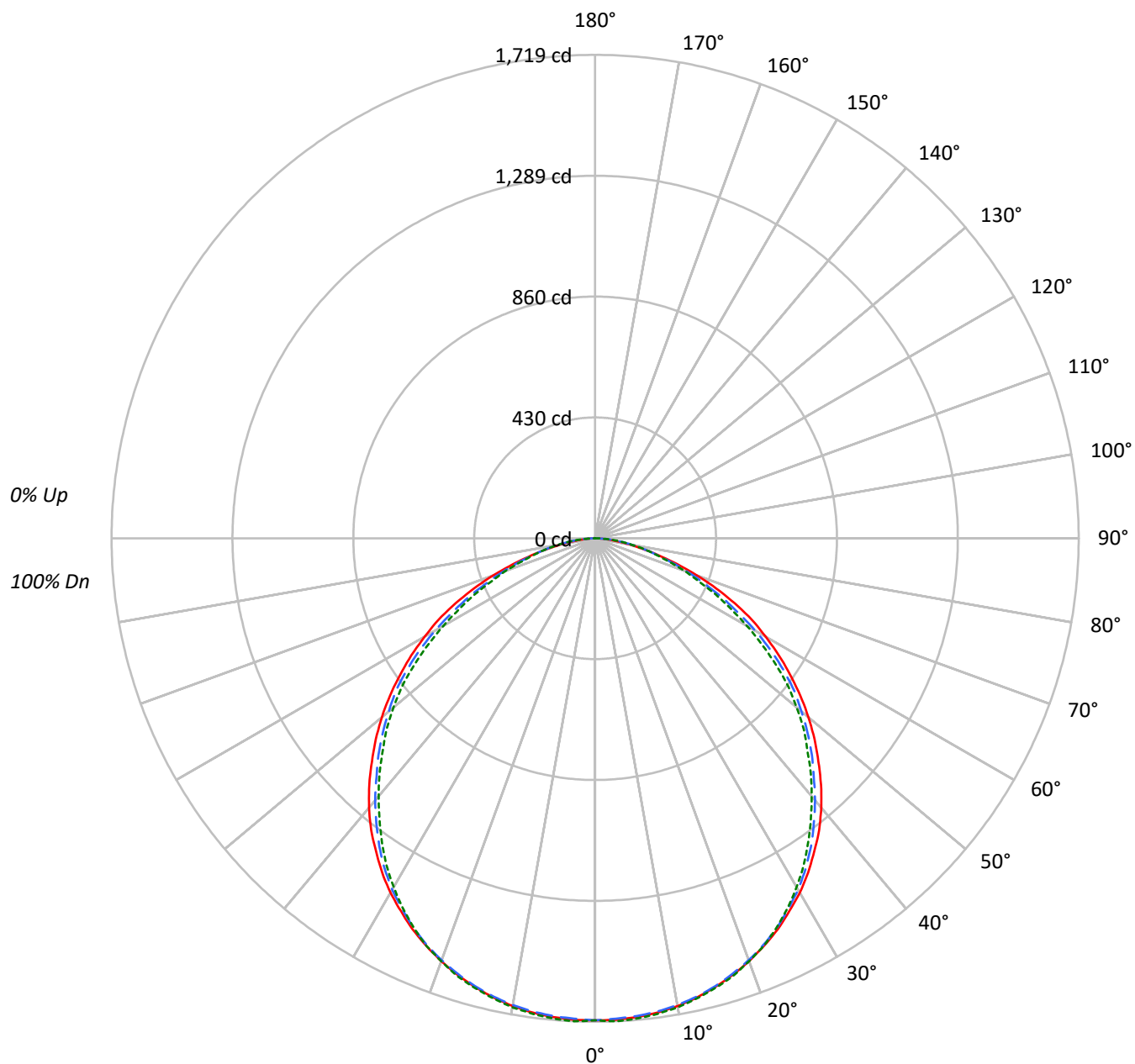
Lumens per Lamp: N/A
Luminaire Lumens: 4549.3 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: (L: 2' x W: 0' x H: 2'
CIE Type: Direct

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

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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	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52		
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40		
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35		
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31		
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	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°	162.6	3.6
10°-20°	466.3	10.2
20°-30°	704.7	15.5
30°-40°	836.8	18.4
40°-50°	843.0	18.5
50°-60°	728.7	16.0
60°-70°	498.1	10.9
70°-80°	245.6	5.4
80°-90°	63.5	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°	1333.6	29.3
0°-40°	2170.4	47.7
0°-60°	3742.1	82.3
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°	1714	1714	1714	1714	1714	
5°	1709	1710	1706	1712	1714	163
15°	1652	1653	1649	1655	1655	466
25°	1535	1533	1528	1530	1527	707
35°	1358	1354	1338	1326	1320	850
45°	1122	1110	1089	1076	1067	866
55°	846	844	818	793	785	757
65°	547	527	497	475	472	540
75°	232	230	227	227	220	253
85°	44	52	56	58	56	54
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1714.3	1714.3	1714.3	1714.3	1714.3
2.5°	1713.8	1714.3	1709.9	1717.5	1719.3
5°	1709.2	1709.9	1705.5	1712.4	1714.3
7.5°	1701.1	1702.3	1697.2	1704.1	1705.5
10°	1688.9	1689.6	1685.2	1692.1	1693.5
12.5°	1672.5	1672.9	1669.2	1675.5	1675.5
15°	1651.5	1653.3	1648.9	1654.7	1655.2
17.5°	1627.9	1628.6	1624.2	1630.5	1631.9
20°	1600.0	1600.0	1596.3	1601.4	1600.0
22.5°	1568.8	1568.8	1564.5	1567.0	1568.1
25°	1534.7	1533.3	1528.2	1529.6	1527.1
27.5°	1495.2	1495.2	1486.2	1486.2	1481.8
30°	1455.3	1452.0	1442.6	1436.8	1432.4
32.5°	1409.3	1405.0	1393.0	1382.8	1379.6
35°	1358.1	1353.5	1337.6	1325.6	1320.5
37.5°	1308.5	1298.3	1277.3	1265.3	1259.5
40°	1250.5	1237.9	1216.4	1199.8	1197.2
42.5°	1188.5	1178.3	1150.4	1138.1	1135.1
45°	1122.4	1110.2	1089.2	1076.5	1067.1
47.5°	1057.6	1048.6	1024.6	1009.3	1006.1
50°	989.5	981.9	957.2	940.8	935.0
52.5°	919.1	914.0	893.0	872.0	865.1
55°	846.2	843.6	817.5	793.3	785.0
57.5°	774.4	771.1	738.6	710.7	703.1
60°	699.4	689.9	658.0	632.0	623.7
62.5°	628.3	608.0	573.6	553.3	543.8
65°	546.8	527.2	496.7	475.0	472.0
67.5°	466.9	443.4	419.8	406.5	396.3
70°	383.6	367.7	349.9	338.6	336.8
72.5°	306.1	294.7	285.7	278.8	273.1
75°	231.7	229.9	226.7	226.7	220.4
77.5°	170.3	174.7	177.3	176.6	178.0
80°	118.2	126.9	132.0	132.7	132.0
82.5°	75.0	85.2	93.5	94.6	96.0
85°	43.9	51.5	56.5	57.7	56.5
87.5°	19.6	24.7	26.1	27.2	26.1
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)