

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: P1046989

Luminaire Tested: 22PTR-50-PW1-L850-UNV-STD-W

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1046989
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-50-PW1-L850-UNV-STD-W
Description: 5000 LUMEN 2X2 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND WAVES LENS

Light Source:
Ballast/Driver: -

Summary

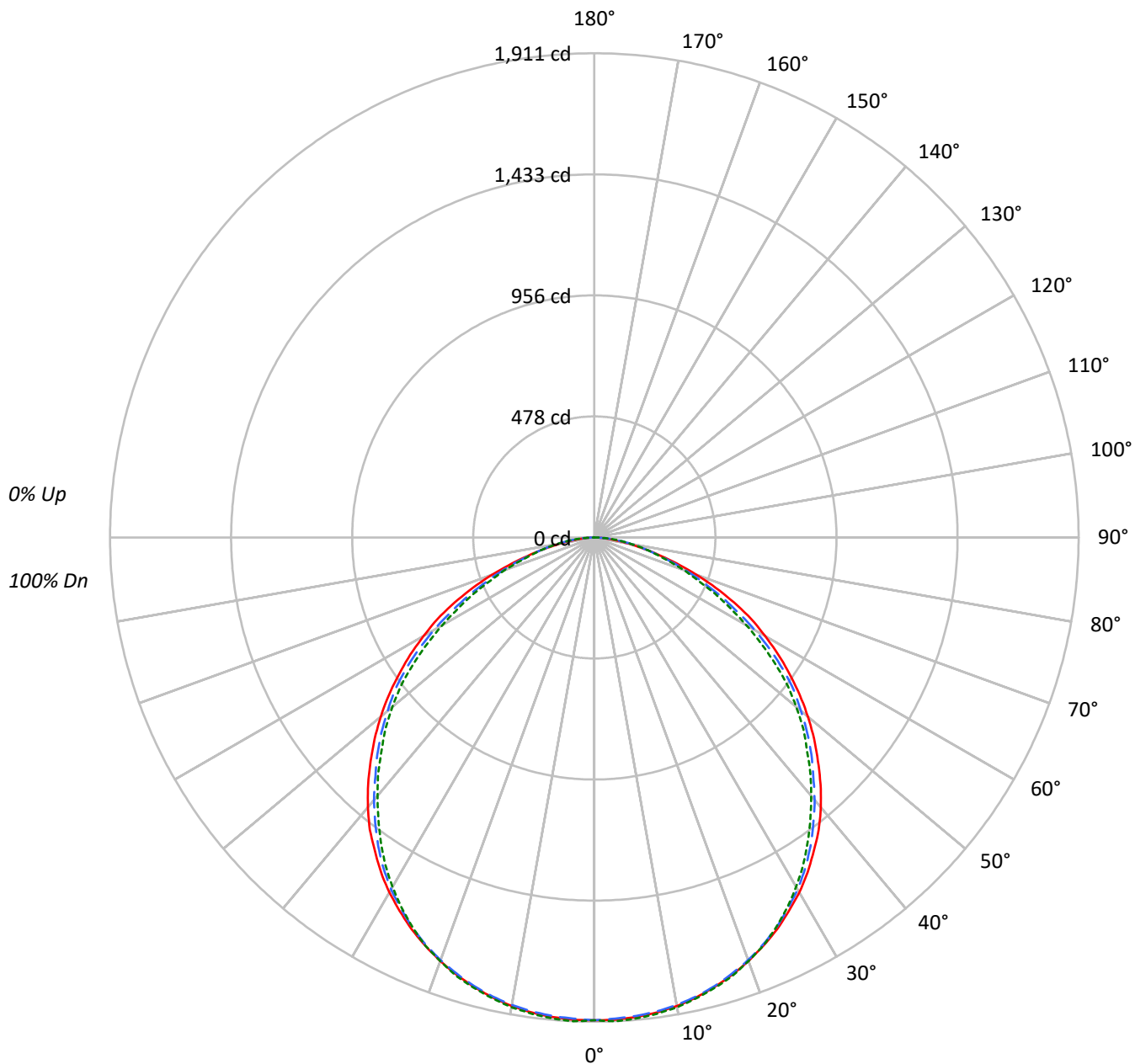
Lumens per Lamp: N/A
Luminaire Lumens: 5057.6 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: (L: 2 ' x W: 0 ' x H: 2 '
CIE Type: Direct

Input Watts (W): 39
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	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°	180.7	3.6
10°-20°	518.4	10.2
20°-30°	783.5	15.5
30°-40°	930.3	18.4
40°-50°	937.2	18.5
50°-60°	810.1	16.0
60°-70°	553.7	10.9
70°-80°	273.0	5.4
80°-90°	70.6	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°	1482.6	29.3
0°-40°	2412.9	47.7
0°-60°	4160.3	82.3
0°-90°	5057.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5057.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1906	1906	1906	1906	1906	
5°	1900	1901	1896	1904	1906	181
15°	1836	1838	1833	1840	1840	518
25°	1706	1705	1699	1700	1698	786
35°	1510	1505	1487	1474	1468	945
45°	1248	1234	1211	1197	1186	963
55°	941	938	909	882	873	841
65°	608	586	552	528	525	600
75°	258	256	252	252	245	281
85°	49	57	63	64	63	60
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1905.8	1905.8	1905.8	1905.8	1905.8
2.5°	1905.3	1905.8	1900.9	1909.4	1911.4
5°	1900.1	1900.9	1896.0	1903.7	1905.8
7.5°	1891.2	1892.4	1886.8	1894.5	1896.0
10°	1877.6	1878.3	1873.4	1881.1	1882.7
12.5°	1859.3	1859.8	1855.7	1862.7	1862.7
15°	1836.0	1838.0	1833.2	1839.6	1840.1
17.5°	1809.8	1810.6	1805.7	1812.6	1814.2
20°	1778.8	1778.8	1774.7	1780.3	1778.8
22.5°	1744.1	1744.1	1739.2	1742.1	1743.4
25°	1706.1	1704.6	1699.0	1700.5	1697.7
27.5°	1662.3	1662.3	1652.3	1652.3	1647.4
30°	1617.9	1614.3	1603.8	1597.3	1592.5
32.5°	1566.8	1561.9	1548.6	1537.3	1533.7
35°	1509.8	1504.7	1487.0	1473.7	1468.0
37.5°	1454.7	1443.4	1420.0	1406.7	1400.3
40°	1390.3	1376.2	1352.3	1333.8	1331.0
42.5°	1321.2	1310.0	1278.9	1265.3	1262.0
45°	1247.9	1234.3	1210.9	1196.8	1186.3
47.5°	1175.7	1165.7	1139.1	1122.1	1118.5
50°	1100.1	1091.6	1064.1	1045.9	1039.5
52.5°	1021.8	1016.1	992.8	969.4	961.7
55°	940.7	937.9	908.9	881.9	872.7
57.5°	860.9	857.3	821.1	790.1	781.6
60°	777.5	767.0	731.6	702.6	693.3
62.5°	698.5	675.9	637.7	615.1	604.6
65°	607.9	586.1	552.2	528.1	524.8
67.5°	519.1	492.9	466.8	451.9	440.6
70°	426.5	408.8	389.0	376.4	374.4
72.5°	340.3	327.7	317.7	310.0	303.6
75°	257.6	255.6	252.0	252.0	245.1
77.5°	189.4	194.2	197.1	196.3	197.8
80°	131.4	141.1	146.8	147.5	146.8
82.5°	83.4	94.7	103.9	105.2	106.7
85°	48.8	57.2	62.9	64.2	62.9
87.5°	21.8	27.5	29.0	30.3	29.0
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)