

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: P1046984

Luminaire Tested: 22PTR-50-PW1-L840-UNV-STD-W

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1046984
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-L840-UNV-STD-W
Description: 5000 LUMEN 2X2 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND WAVES LENS

Light Source:
Ballast/Driver: -

Summary

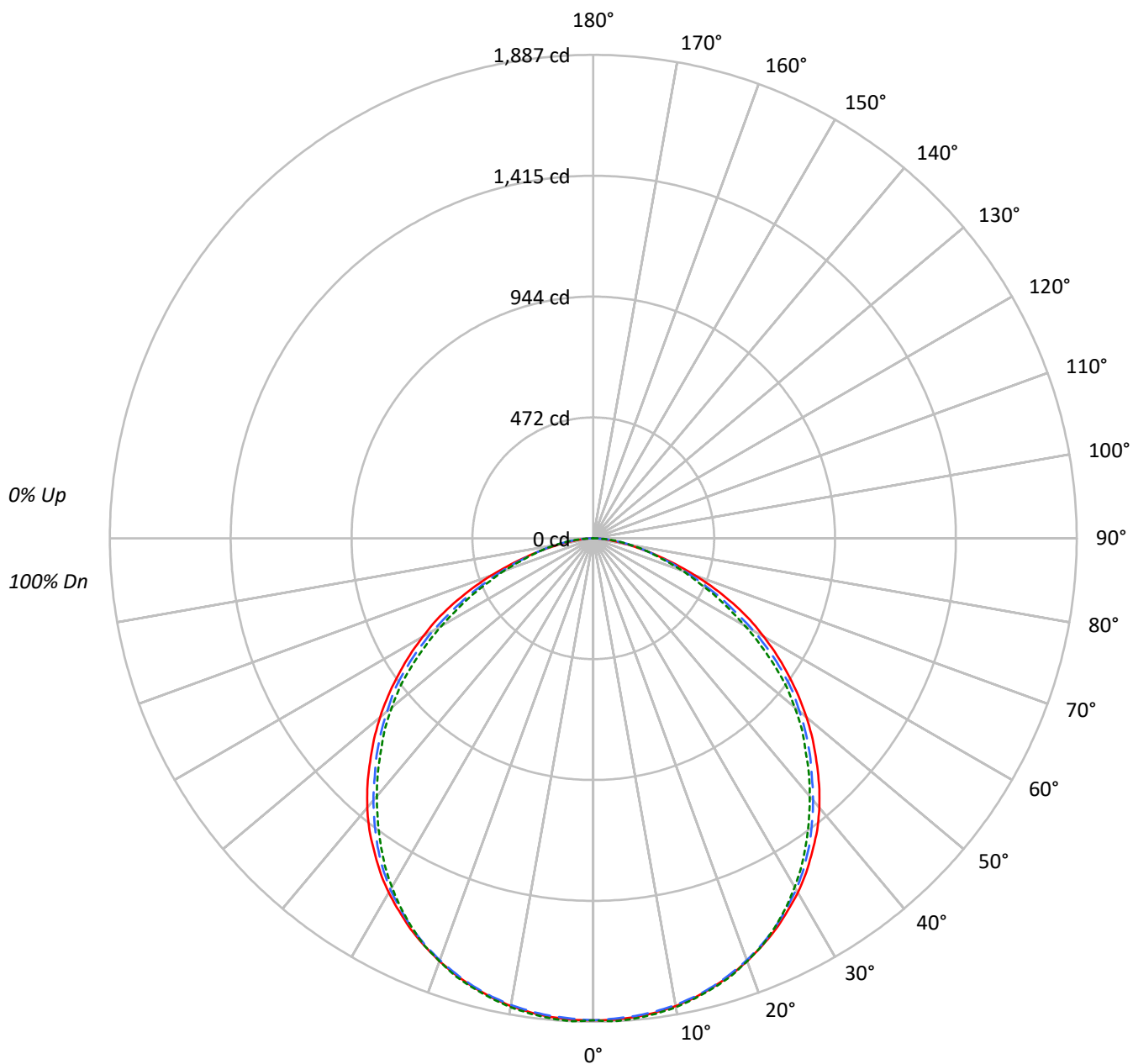
Lumens per Lamp: N/A
Luminaire Lumens: 4993.6 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: (L: 2 ' x W: 0 ' x H: 2 '
CIE Type: Direct

Input Watts (W): 39
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°	178.4	3.6
10°-20°	511.8	10.2
20°-30°	773.5	15.5
30°-40°	918.5	18.4
40°-50°	925.4	18.5
50°-60°	799.9	16.0
60°-70°	546.7	10.9
70°-80°	269.6	5.4
80°-90°	69.7	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°	1463.8	29.3
0°-40°	2382.3	47.7
0°-60°	4107.6	82.3
0°-90°	4993.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4993.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1882	1882	1882	1882	1882	
5°	1876	1877	1872	1880	1882	178
15°	1813	1815	1810	1816	1817	512
25°	1684	1683	1678	1679	1676	776
35°	1491	1486	1468	1455	1449	933
45°	1232	1219	1196	1182	1171	951
55°	929	926	897	871	862	830
65°	600	579	545	521	518	593
75°	254	252	249	249	242	277
85°	48	56	62	63	62	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1881.7	1881.7	1881.7	1881.7	1881.7
2.5°	1881.2	1881.7	1876.8	1885.2	1887.2
5°	1876.1	1876.8	1872.0	1879.6	1881.7
7.5°	1867.2	1868.5	1862.9	1870.5	1872.0
10°	1853.8	1854.5	1849.7	1857.3	1858.9
12.5°	1835.8	1836.3	1832.3	1839.1	1839.1
15°	1812.7	1814.8	1810.0	1816.3	1816.8
17.5°	1786.9	1787.7	1782.8	1789.7	1791.2
20°	1756.2	1756.2	1752.2	1757.8	1756.2
22.5°	1722.0	1722.0	1717.2	1720.0	1721.3
25°	1684.5	1683.0	1677.5	1679.0	1676.2
27.5°	1641.2	1641.2	1631.3	1631.3	1626.5
30°	1597.4	1593.8	1583.5	1577.1	1572.3
32.5°	1547.0	1542.2	1529.0	1517.8	1514.3
35°	1490.7	1485.7	1468.2	1455.0	1449.4
37.5°	1436.3	1425.1	1402.1	1388.9	1382.6
40°	1372.7	1358.7	1335.2	1316.9	1314.1
42.5°	1304.5	1293.4	1262.7	1249.3	1246.0
45°	1232.1	1218.6	1195.6	1181.6	1171.3
47.5°	1160.9	1151.0	1124.6	1107.9	1104.4
50°	1086.1	1077.8	1050.7	1032.7	1026.3
52.5°	1008.9	1003.3	980.2	957.2	949.6
55°	928.8	926.0	897.4	870.8	861.7
57.5°	850.0	846.5	810.7	780.1	771.7
60°	767.7	757.3	722.3	693.7	684.6
62.5°	689.6	667.3	629.6	607.3	596.9
65°	600.2	578.7	545.2	521.4	518.1
67.5°	512.5	486.7	460.9	446.2	435.0
70°	421.1	403.6	384.1	371.7	369.6
72.5°	335.9	323.5	313.7	306.1	299.7
75°	254.4	252.3	248.8	248.8	242.0
77.5°	187.0	191.8	194.6	193.8	195.3
80°	129.7	139.3	144.9	145.7	144.9
82.5°	82.3	93.5	102.6	103.9	105.4
85°	48.1	56.5	62.1	63.3	62.1
87.5°	21.5	27.1	28.6	29.9	28.6
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)