

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: P1046690

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

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1046690
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2310-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22PTR-50-L840-UNV-STD-W
Description: 5000 LUMEN 2X2 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

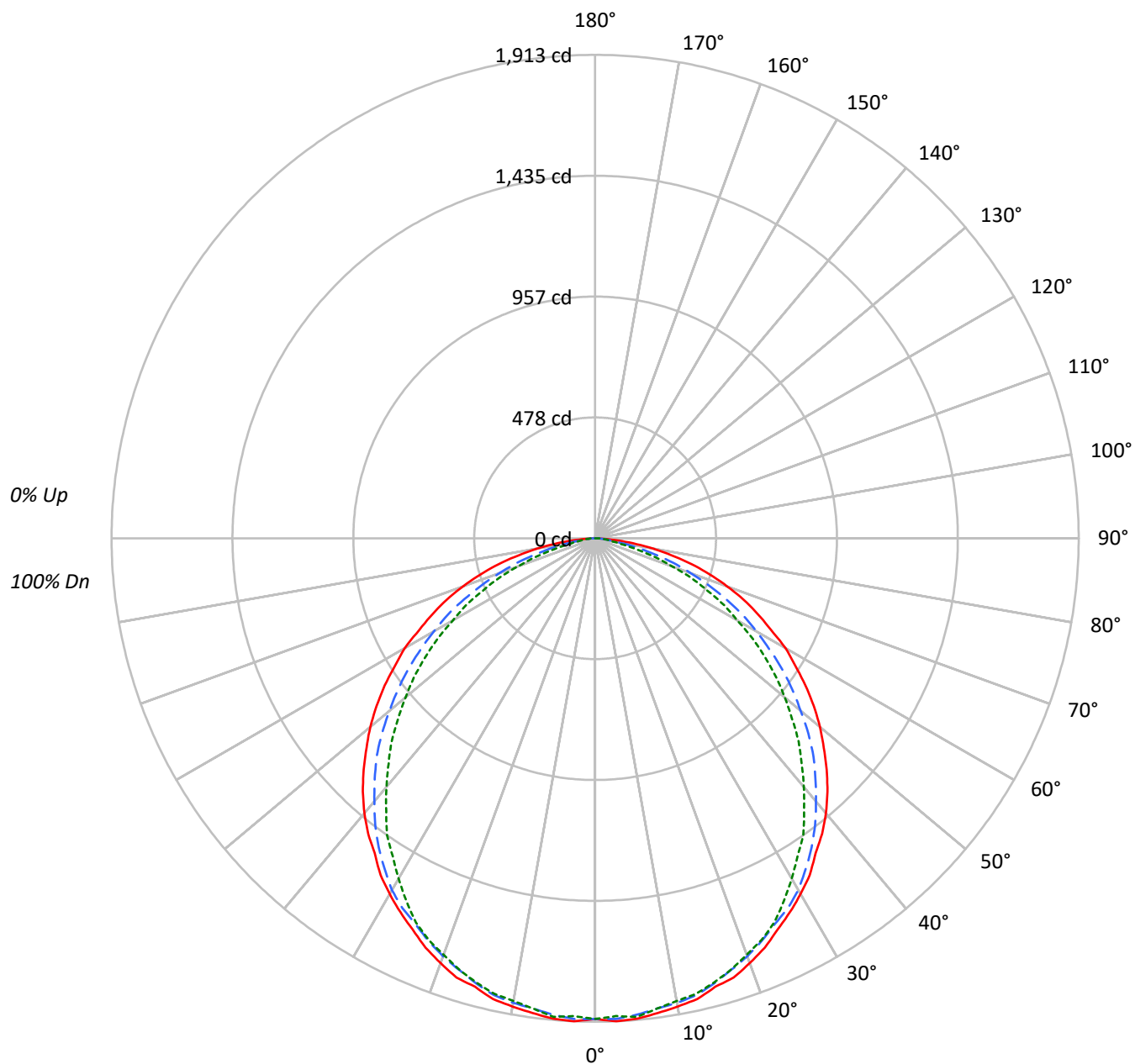
Lumens per Lamp: N/A
Luminaire Lumens: 5065.7 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35
Luminous Opening: (L: 2 ' x W: 0 ' x H: 2 '
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91
2	100	92	85	80	97	90	84	79	87	81	77		83	79	75		80
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71
4	84	72	63	57	81	71	63	56	68	61	56		66	60	55		64
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		52
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		48
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		44
9	57	44	36	31	56	44	36	30	42	35	30		41	35	30		40
10	54	41	33	28	53	40	33	28	39	32	28		38	32	27		37

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°	180.3	3.6
10°-20°	515.9	10.2
20°-30°	779.2	15.4
30°-40°	926.5	18.3
40°-50°	939.6	18.5
50°-60°	815.9	16.1
60°-70°	579.2	11.4
70°-80°	276.8	5.5
80°-90°	52.5	1.0
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°	1475.3	29.1
0°-40°	2401.8	47.4
0°-60°	4157.3	82.1
0°-90°	5065.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5065.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1902	1902	1902	1902	1902	
5°	1909	1902	1893	1897	1901	181
15°	1837	1842	1822	1820	1819	520
25°	1708	1706	1683	1690	1678	789
35°	1520	1518	1493	1442	1435	955
45°	1295	1283	1222	1158	1138	999
55°	1016	985	903	850	820	908
65°	710	657	571	510	490	703
75°	395	323	240	190	169	415
85°	77	41	35	34	33	97
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1901.8	1901.8	1901.8	1901.8	1901.8
2.5°	1913.1	1906.3	1904.1	1912.0	1892.7
5°	1908.6	1901.8	1892.7	1897.3	1900.7
7.5°	1895.0	1889.3	1876.9	1887.1	1876.9
10°	1881.4	1875.7	1866.7	1870.1	1858.7
12.5°	1867.8	1854.2	1851.9	1854.2	1846.3
15°	1837.2	1841.8	1822.5	1820.2	1819.1
17.5°	1822.5	1811.2	1790.8	1791.9	1789.6
20°	1788.5	1774.9	1760.2	1757.9	1753.4
22.5°	1753.4	1737.5	1724.0	1730.7	1720.6
25°	1708.1	1705.8	1683.2	1690.0	1677.5
27.5°	1668.5	1660.5	1650.3	1635.6	1617.5
30°	1625.4	1617.5	1607.3	1568.8	1555.2
32.5°	1580.1	1571.0	1550.7	1505.3	1490.6
35°	1520.1	1517.8	1492.9	1441.9	1435.1
37.5°	1474.8	1449.8	1429.5	1377.4	1358.1
40°	1420.4	1406.8	1359.2	1309.4	1284.5
42.5°	1360.4	1344.5	1290.1	1236.9	1209.7
45°	1294.7	1283.3	1222.2	1157.6	1138.4
47.5°	1226.7	1216.5	1144.0	1081.7	1056.8
50°	1161.0	1148.5	1061.3	1001.3	978.6
52.5°	1089.6	1069.3	983.2	924.3	902.8
55°	1016.0	985.4	902.8	849.5	820.1
57.5°	937.9	909.5	817.8	762.3	738.5
60°	869.9	830.3	736.2	679.6	649.0
62.5°	782.7	748.7	659.2	592.4	577.7
65°	710.2	657.0	570.9	509.7	490.5
67.5°	636.6	574.3	487.1	424.8	414.6
70°	556.2	491.6	402.1	340.9	323.9
72.5°	474.6	411.2	323.9	259.4	249.2
75°	395.3	322.8	240.1	190.3	168.8
77.5°	309.2	243.5	168.8	116.7	103.1
80°	229.9	164.2	97.4	69.1	68.0
82.5°	150.6	95.1	52.1	53.2	51.0
85°	77.0	40.8	35.1	34.0	32.8
87.5°	14.7	15.9	17.0	17.0	17.0
90°	0.0	0.0	0.0	0.0	0.0





— 0°-180° - - 45°-225° - - - 90°-270°

(END OF REPORT)