

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: P1046816

Luminaire Tested: 22PTR-50-PL1-L840-UNV-STD-W

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1046816
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-50-PL1-L840-UNV-STD-W
Description: 5000 LUMEN 2X2 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

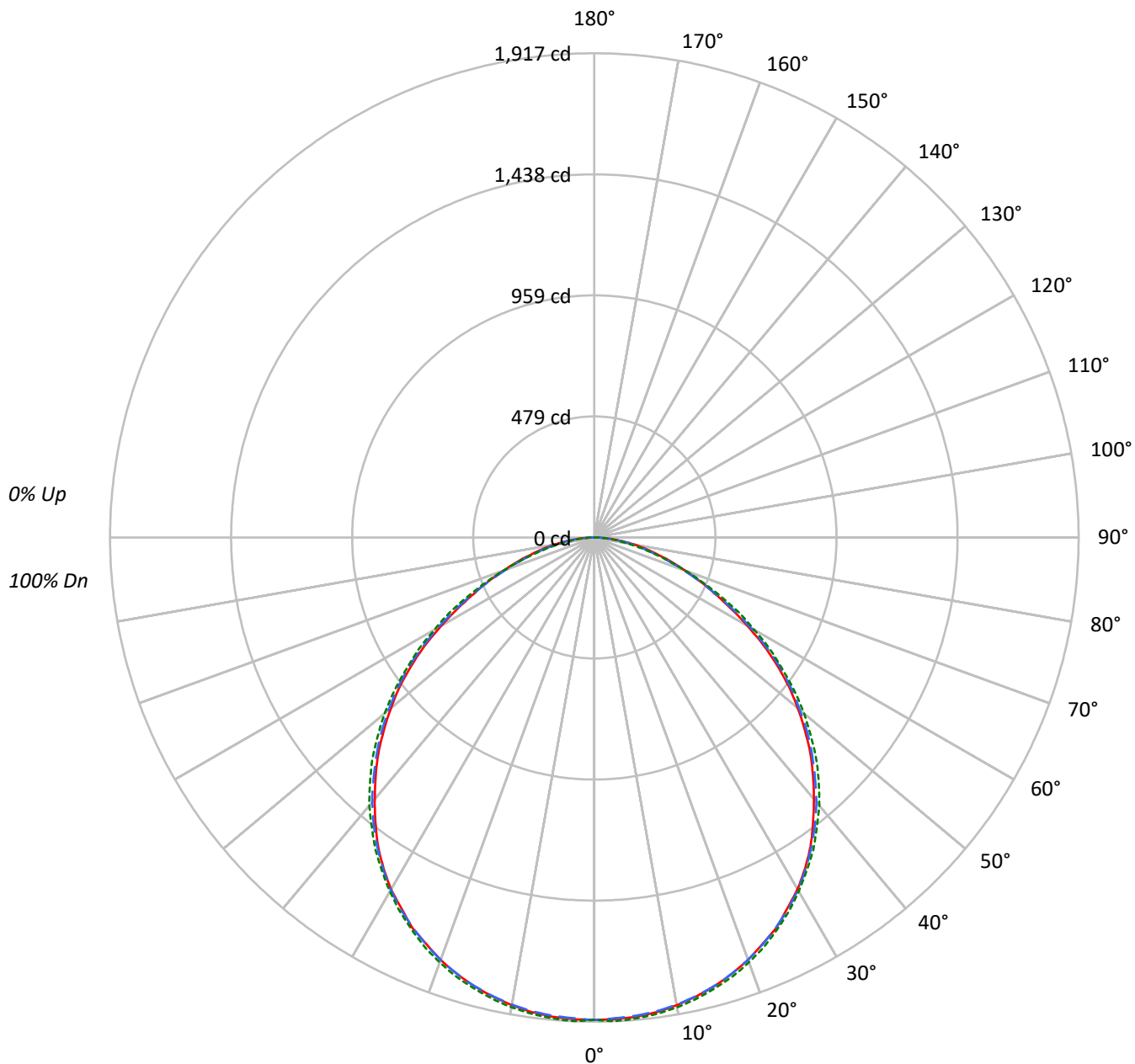
Lumens per Lamp: N/A
Luminaire Lumens: 5035.3 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: (L: 2 ' x W: 0 ' x H: 2 '
CIE Type: Direct

Input Watts (W): 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	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°	181.2	3.6
10°-20°	519.7	10.3
20°-30°	786.1	15.6
30°-40°	937.0	18.6
40°-50°	942.2	18.7
50°-60°	799.7	15.9
60°-70°	532.4	10.6
70°-80°	265.9	5.3
80°-90°	71.1	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°	1487.0	29.5
0°-40°	2424.0	48.1
0°-60°	4165.9	82.7
0°-90°	5035.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5035.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1910	1910	1910	1910	1910	
5°	1905	1905	1901	1910	1912	181
15°	1839	1841	1838	1846	1847	519
25°	1705	1705	1703	1711	1712	784
35°	1493	1494	1498	1509	1510	931
45°	1209	1212	1220	1236	1243	930
55°	883	890	898	906	908	787
65°	524	529	530	538	551	526
75°	259	255	244	238	239	278
85°	67	66	61	57	52	78
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1910.2	1910.2	1910.2	1910.2	1910.2
2.5°	1908.7	1910.2	1905.1	1914.3	1916.7
5°	1904.6	1905.1	1901.0	1909.5	1911.5
7.5°	1895.3	1896.1	1891.7	1901.0	1902.3
10°	1880.4	1881.9	1878.3	1886.8	1888.9
12.5°	1861.4	1863.4	1859.8	1869.1	1870.6
15°	1838.7	1840.8	1838.0	1845.7	1847.2
17.5°	1811.0	1812.5	1811.0	1818.2	1822.3
20°	1779.8	1779.8	1779.8	1786.3	1789.9
22.5°	1741.0	1744.6	1743.1	1751.6	1755.2
25°	1705.0	1705.0	1702.7	1710.7	1712.0
27.5°	1654.6	1660.3	1659.7	1666.7	1668.2
30°	1608.6	1610.1	1610.9	1615.8	1618.6
32.5°	1552.8	1554.1	1556.4	1563.3	1564.1
35°	1492.6	1494.1	1498.2	1508.8	1510.3
37.5°	1422.6	1430.4	1434.0	1445.3	1446.6
40°	1352.4	1357.3	1368.1	1380.0	1385.6
42.5°	1280.9	1286.6	1293.0	1309.2	1314.4
45°	1209.4	1211.5	1219.5	1235.7	1242.9
47.5°	1130.2	1136.7	1143.6	1157.8	1162.1
50°	1051.0	1058.0	1062.4	1075.0	1083.4
52.5°	971.1	977.5	982.4	990.1	998.6
55°	883.4	889.5	897.5	906.0	908.1
57.5°	794.1	801.1	806.2	815.2	824.5
60°	698.5	706.4	713.4	721.9	731.1
62.5°	609.5	612.8	620.0	634.2	647.5
65°	524.4	528.7	530.0	538.0	551.4
67.5°	453.6	453.6	447.2	450.0	465.0
70°	379.3	376.5	371.6	368.8	380.9
72.5°	319.1	315.5	305.0	300.1	306.5
75°	259.0	255.4	244.1	238.4	239.2
77.5°	208.0	202.4	193.1	183.4	181.3
80°	157.9	155.6	146.6	137.3	130.1
82.5°	111.9	107.0	101.8	96.2	90.5
85°	67.1	65.8	60.9	57.3	52.5
87.5°	27.5	27.5	26.2	24.7	23.4
90°	0.0	0.0	0.0	0.0	0.0







— 0°-180° - - 45°-225° - - - 90°-270°





(END OF REPORT)