

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: P1046946

Luminaire Tested: 22PTR-45-PR1-L850-UNV-STD-W

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1046946
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737735)
Test Lab: INNOVATION CENTER
Issue Date: 7/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22PTR-45-PR1-L850-UNV-STD-W
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND RIPPLE LENS

Light Source:
Ballast/Driver: -

Summary

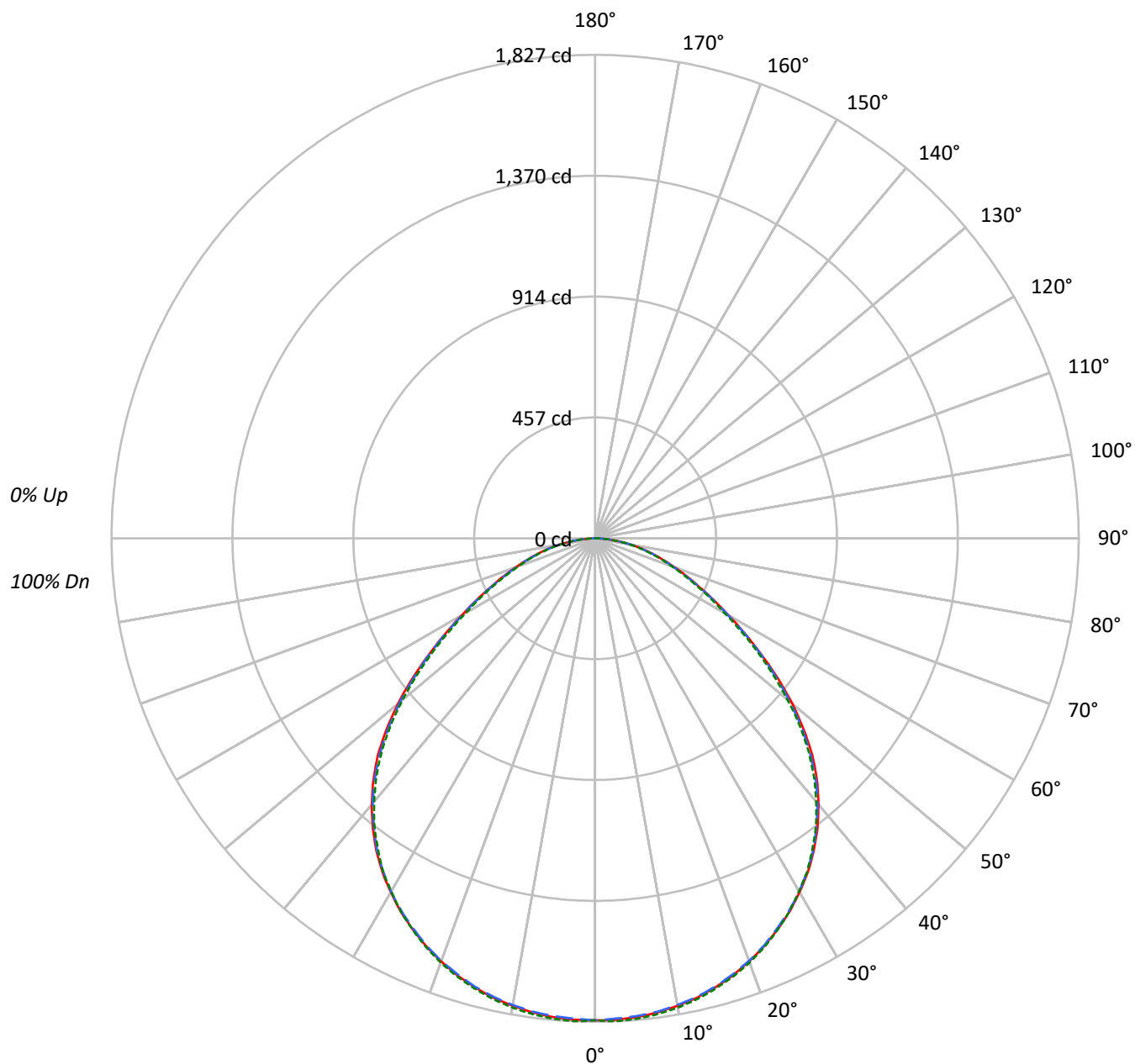
Lumens per Lamp: N/A
Luminaire Lumens: 4607.5 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.34
Luminous Opening: (L: 2 ' x W: 0 ' x H: 2 '
CIE Type: Direct

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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62		
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54		
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	47		
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41		
7	67	54	45	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37		
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33		
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30		
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27		

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°	172.8	3.8
10°-20°	496.0	10.8
20°-30°	751.5	16.3
30°-40°	897.1	19.5
40°-50°	882.2	19.1
50°-60°	681.9	14.8
60°-70°	429.9	9.3
70°-80°	232.6	5.0
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°	1420.3	30.8
0°-40°	2317.4	50.3
0°-60°	3881.4	84.2
0°-90°	4607.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4607.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1822	1822	1822	1822	1822	
5°	1817	1817	1813	1820	1823	173
15°	1757	1757	1754	1760	1762	496
25°	1631	1632	1627	1632	1632	752
35°	1441	1441	1437	1435	1431	899
45°	1162	1157	1148	1140	1140	890
55°	767	774	764	752	749	689
65°	433	434	430	423	422	436
75°	223	220	218	219	214	237
85°	54	55	54	54	52	64
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1821.9	1821.9	1821.9	1821.9	1821.9
2.5°	1821.2	1821.9	1816.7	1825.2	1827.1
5°	1816.7	1817.4	1812.6	1820.5	1822.6
7.5°	1807.4	1808.8	1804.3	1812.1	1814.0
10°	1794.4	1795.8	1791.3	1799.1	1801.0
12.5°	1778.2	1778.7	1774.9	1782.0	1783.9
15°	1756.6	1757.1	1754.0	1759.7	1762.3
17.5°	1731.7	1732.4	1727.9	1735.0	1736.2
20°	1701.8	1702.3	1699.7	1705.6	1706.3
22.5°	1668.4	1669.8	1665.8	1671.0	1671.7
25°	1630.6	1631.8	1626.6	1631.8	1632.5
27.5°	1590.8	1591.3	1586.8	1590.8	1590.1
30°	1544.3	1548.3	1542.4	1541.0	1540.5
32.5°	1496.1	1496.6	1490.9	1489.5	1492.1
35°	1440.6	1441.1	1437.3	1435.4	1431.4
37.5°	1379.9	1379.9	1372.5	1371.3	1370.6
40°	1313.2	1312.5	1308.0	1303.5	1298.7
42.5°	1240.6	1242.0	1232.8	1224.9	1223.8
45°	1161.6	1157.1	1148.5	1139.5	1140.2
47.5°	1068.4	1069.5	1057.9	1050.6	1048.7
50°	971.6	971.6	960.6	952.8	948.8
52.5°	870.5	871.2	860.8	850.3	848.2
55°	767.3	773.7	764.0	751.6	749.0
57.5°	670.7	675.9	666.7	653.6	652.9
60°	581.3	581.7	579.1	566.8	563.5
62.5°	504.9	501.6	500.1	493.7	489.7
65°	433.0	433.7	430.4	423.0	421.8
67.5°	374.9	374.1	368.2	363.7	361.1
70°	317.9	316.0	313.4	309.6	307.0
72.5°	267.1	267.1	265.0	263.8	259.3
75°	222.8	220.2	217.6	218.7	213.5
77.5°	180.3	177.7	175.6	173.0	171.8
80°	136.4	133.8	134.5	130.5	130.0
82.5°	94.7	94.7	93.5	90.2	90.9
85°	54.1	54.8	53.6	54.1	51.5
87.5°	19.7	20.2	21.6	20.2	20.2
90°	0.0	0.0	0.0	0.0	0.0







— 0°-180° - - 45°-225° - - - 90°-270°





(END OF REPORT)