

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: P1050822

Luminaire Tested: 24PTR-50-PLG-L930-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050822
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2409-224-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-50-PLG-L930-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 90 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

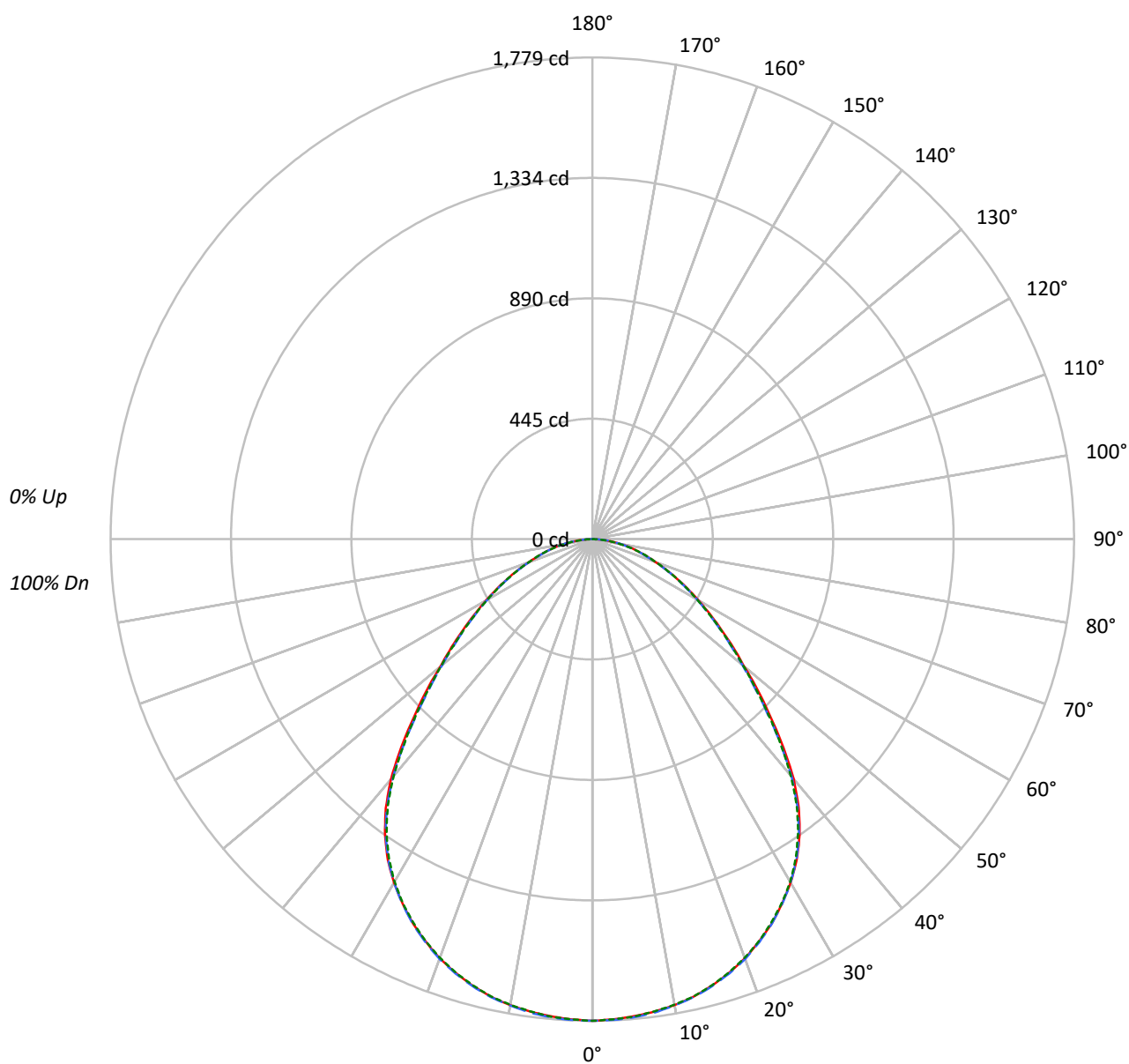
Lumens per Lamp: N/A
Luminaire Lumens: 4008.8 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41
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	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86	84	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74	72	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	69	66	64	62	64
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56	54	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49	47	49
6	74	61	53	47	72	60	52	47	58	51	46	57	51	46	55	50	45	43	41	43
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39	37	39
8	64	51	43	38	62	51	43	38	49	42	37	48	42	37	47	41	37	35	33	35
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32	30	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29	27	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2394	2394	2394
5°	2389	2394	2391
10°	2388	2389	2386
15°	2378	2381	2376
20°	2359	2363	2356
25°	2326	2328	2321
30°	2276	2276	2270
35°	2192	2186	2176
40°	2031	2009	2003
45°	1776	1747	1754
50°	1533	1514	1522
55°	1362	1342	1345
60°	1220	1203	1203
65°	1093	1085	1089
70°	983	974	983
75°	912	899	912
80°	852	841	812
85°	721	721	644

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1776 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.4	4.2
10°-20°	482.0	12.0
20°-30°	721.2	18.0
30°-40°	826.2	20.6
40°-50°	714.6	17.8
50°-60°	517.2	12.9
60°-70°	340.7	8.5
70°-80°	185.4	4.6
80°-90°	53.1	1.3
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°	1371.6	34.2
0°-40°	2197.8	54.8
0°-60°	3429.6	85.6
0°-90°	4008.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4008.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1779	1779	1779	1779	1779	
5°	1769	1773	1773	1773	1770	168
15°	1707	1708	1710	1712	1706	482
25°	1567	1567	1568	1570	1563	721
35°	1335	1333	1331	1330	1324	829
45°	933	931	918	917	922	723
55°	581	578	572	568	573	523
65°	343	346	341	338	342	343
75°	176	176	173	173	176	187
85°	47	47	47	48	42	54
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1779.1	1779.1	1779.1	1779.1	1779.1
2.5°	1775.3	1779.1	1777.8	1779.1	1775.3
5°	1769.0	1772.8	1772.8	1772.8	1770.2
7.5°	1760.1	1762.7	1763.9	1765.2	1758.9
10°	1747.5	1750.0	1748.8	1751.3	1746.3
12.5°	1731.1	1731.1	1732.4	1734.9	1729.8
15°	1707.1	1708.4	1709.6	1712.2	1705.9
17.5°	1679.3	1680.6	1681.9	1683.1	1678.1
20°	1647.8	1647.8	1650.3	1651.6	1645.2
22.5°	1608.6	1608.6	1611.2	1614.9	1607.4
25°	1567.0	1567.0	1568.2	1569.5	1563.2
27.5°	1517.7	1517.7	1519.0	1522.8	1515.2
30°	1464.7	1463.4	1464.7	1465.9	1460.9
32.5°	1405.3	1404.1	1402.8	1404.1	1397.8
35°	1334.6	1333.4	1330.8	1329.6	1324.5
37.5°	1252.6	1250.0	1245.0	1245.0	1239.9
40°	1156.6	1150.3	1144.0	1141.4	1140.2
42.5°	1045.5	1040.4	1031.6	1030.3	1030.3
45°	933.1	930.6	918.0	916.7	921.7
47.5°	832.1	825.8	814.4	811.9	819.5
50°	732.3	733.6	723.5	719.7	727.3
52.5°	654.1	651.5	642.7	640.2	646.5
55°	580.8	578.3	572.0	568.2	573.2
57.5°	513.9	512.6	506.3	505.1	507.6
60°	453.3	452.0	447.0	445.7	447.0
62.5°	396.5	396.5	391.4	388.9	392.7
65°	343.4	346.0	340.9	338.4	342.2
67.5°	295.5	298.0	292.9	290.4	295.5
70°	250.0	252.5	247.5	245.0	250.0
72.5°	210.9	212.1	208.3	207.1	213.4
75°	175.5	175.5	173.0	173.0	175.5
77.5°	142.7	141.4	140.2	140.2	137.6
80°	109.9	108.6	108.6	108.6	104.8
82.5°	78.3	75.8	77.0	78.3	72.0
85°	46.7	46.7	46.7	48.0	41.7
87.5°	18.9	18.9	17.7	18.9	16.4
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)