

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: P1051009

Luminaire Tested: 24PTR-50-PW1-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1051009
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737743)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-50-PW1-L830-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND WAVES LENS

Light Source:
Ballast/Driver: -

Summary

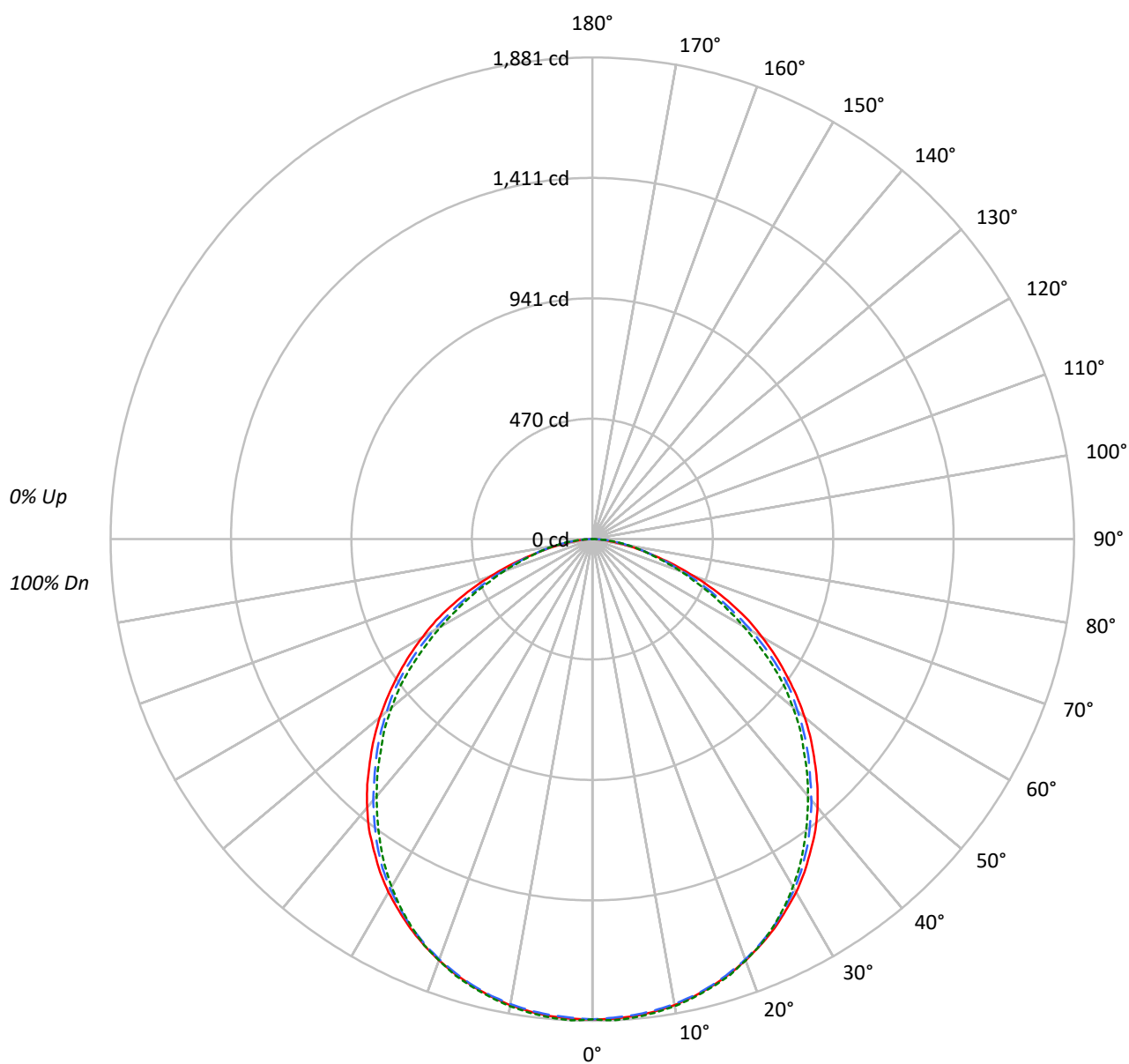
Lumens per Lamp: N/A
Luminaire Lumens: 4977.1 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	87	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	74	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	63	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	54	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	42	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	37	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	33	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	30	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	27	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2523	2523	2523
5°	2526	2520	2533
10°	2524	2519	2531
15°	2517	2513	2522
20°	2506	2501	2506
25°	2493	2482	2480
30°	2474	2452	2435
35°	2440	2404	2373
40°	2403	2337	2301
45°	2337	2267	2221
50°	2266	2192	2141
55°	2171	2098	2015
60°	2059	1937	1836
65°	1904	1730	1644
70°	1651	1506	1449
75°	1318	1289	1254
80°	1002	1119	1119
85°	741	956	956

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2337 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.9	3.6
10°-20°	510.1	10.2
20°-30°	771.0	15.5
30°-40°	915.5	18.4
40°-50°	922.3	18.5
50°-60°	797.2	16.0
60°-70°	544.9	10.9
70°-80°	268.7	5.4
80°-90°	69.5	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°	1459.0	29.3
0°-40°	2374.5	47.7
0°-60°	4094.0	82.3
0°-90°	4977.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4977.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1875	1875	1875	1875	1875	
5°	1870	1871	1866	1873	1875	178
15°	1807	1809	1804	1810	1811	510
25°	1679	1678	1672	1673	1671	773
35°	1486	1481	1463	1450	1445	930
45°	1228	1215	1192	1178	1167	948
55°	926	923	894	868	859	828
65°	598	577	543	520	516	591
75°	254	252	248	248	241	276
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°	1875.4	1875.4	1875.4	1875.4	1875.4
2.5°	1874.9	1875.4	1870.6	1879.0	1881.0
5°	1869.9	1870.6	1865.8	1873.4	1875.4
7.5°	1861.1	1862.3	1856.8	1864.3	1865.8
10°	1847.7	1848.4	1843.6	1851.2	1852.7
12.5°	1829.7	1830.2	1826.2	1833.0	1833.0
15°	1806.8	1808.8	1804.0	1810.3	1810.8
17.5°	1781.0	1781.8	1777.0	1783.8	1785.3
20°	1750.4	1750.4	1746.4	1752.0	1750.4
22.5°	1716.4	1716.4	1711.6	1714.3	1715.6
25°	1679.0	1677.5	1671.9	1673.4	1670.7
27.5°	1635.8	1635.8	1626.0	1626.0	1621.2
30°	1592.1	1588.6	1578.2	1571.9	1567.1
32.5°	1541.9	1537.1	1523.9	1512.8	1509.3
35°	1485.8	1480.8	1463.3	1450.2	1444.6
37.5°	1431.5	1420.4	1397.4	1384.3	1378.0
40°	1368.1	1354.2	1330.8	1312.6	1309.8
42.5°	1300.2	1289.1	1258.5	1245.2	1241.9
45°	1228.0	1214.6	1191.6	1177.7	1167.4
47.5°	1157.0	1147.2	1120.9	1104.3	1100.7
50°	1082.5	1074.2	1047.2	1029.3	1022.9
52.5°	1005.5	1000.0	977.0	954.0	946.4
55°	925.7	922.9	894.4	867.9	858.8
57.5°	847.2	843.7	808.1	777.5	769.2
60°	765.1	754.8	719.9	691.4	682.3
62.5°	687.4	665.1	627.5	605.3	594.9
65°	598.2	576.7	543.4	519.7	516.4
67.5°	510.8	485.1	459.3	444.7	433.6
70°	419.7	402.3	382.8	370.4	368.4
72.5°	334.8	322.5	312.6	305.0	298.7
75°	253.5	251.5	248.0	248.0	241.2
77.5°	186.4	191.2	193.9	193.2	194.7
80°	129.3	138.9	144.4	145.2	144.4
82.5°	82.1	93.2	102.3	103.5	105.0
85°	48.0	56.3	61.9	63.1	61.9
87.5°	21.5	27.0	28.5	29.8	28.5
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)