

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: P1050470

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

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050470
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2310-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-50-L830-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

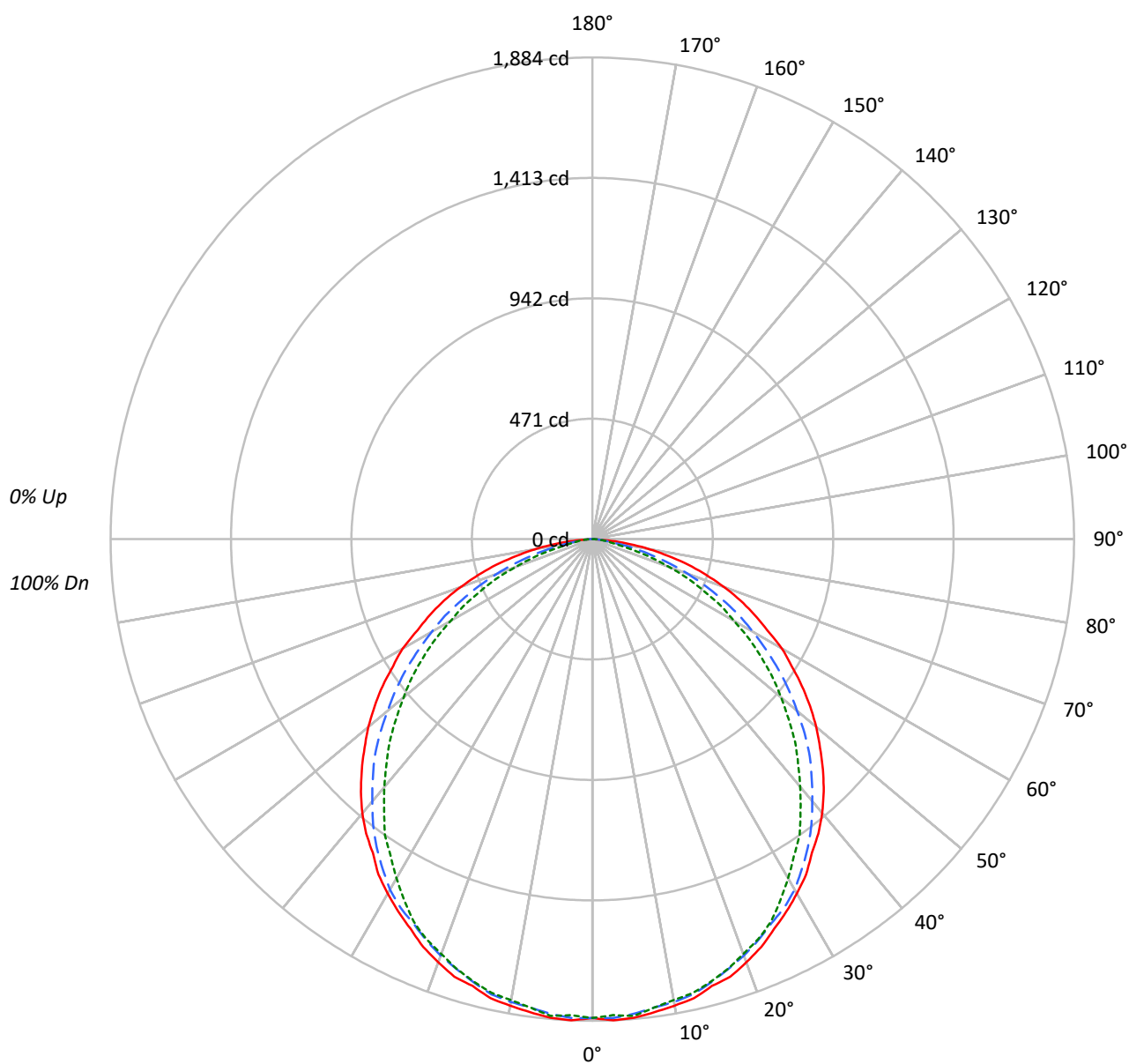
Lumens per Lamp: N/A
Luminaire Lumens: 4988.5 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	96	98	95	93	95	92	90	91	89	87	87	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	74	74	72
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	56	68	61	56	66	60	55	64	58	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	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	33	33	31
9	57	44	36	31	56	44	36	30	42	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	27	37	32	27	27	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2520	2520	2520
5°	2539	2517	2528
10°	2531	2511	2501
15°	2520	2500	2495
20°	2522	2482	2472
25°	2497	2461	2453
30°	2487	2459	2379
35°	2459	2415	2321
40°	2457	2351	2222
45°	2426	2290	2133
50°	2393	2188	2017
55°	2347	2085	1894
60°	2305	1951	1720
65°	2227	1790	1538
70°	2155	1558	1255
75°	2024	1229	864
80°	1754	743	518
85°	1170	534	499

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2426 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.5	3.6
10°-20°	508.0	10.2
20°-30°	767.3	15.4
30°-40°	912.3	18.3
40°-50°	925.3	18.5
50°-60°	803.5	16.1
60°-70°	570.4	11.4
70°-80°	272.6	5.5
80°-90°	51.7	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°	1452.8	29.1
0°-40°	2365.2	47.4
0°-60°	4093.9	82.1
0°-90°	4988.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4988.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1873	1873	1873	1873	1873	
5°	1880	1873	1864	1868	1872	178
15°	1809	1814	1795	1792	1791	512
25°	1682	1680	1658	1664	1652	777
35°	1497	1495	1470	1420	1413	941
45°	1275	1264	1204	1140	1121	983
55°	1000	970	889	837	808	894
65°	699	647	562	502	483	693
75°	389	318	236	187	166	408
85°	76	40	35	34	32	96
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1872.8	1872.8	1872.8	1872.8	1872.8
2.5°	1884.0	1877.3	1875.0	1882.9	1863.9
5°	1879.5	1872.8	1863.9	1868.4	1871.7
7.5°	1866.1	1860.5	1848.3	1858.3	1848.3
10°	1852.7	1847.2	1838.2	1841.6	1830.4
12.5°	1839.4	1826.0	1823.7	1826.0	1818.2
15°	1809.2	1813.7	1794.7	1792.5	1791.4
17.5°	1794.7	1783.6	1763.5	1764.6	1762.4
20°	1761.3	1747.9	1733.4	1731.2	1726.7
22.5°	1726.7	1711.1	1697.7	1704.4	1694.3
25°	1682.1	1679.8	1657.5	1664.2	1652.0
27.5°	1643.0	1635.2	1625.2	1610.7	1592.8
30°	1600.6	1592.8	1582.8	1544.9	1531.5
32.5°	1556.0	1547.1	1527.0	1482.4	1467.9
35°	1496.9	1494.7	1470.1	1419.9	1413.3
37.5°	1452.3	1427.8	1407.7	1356.4	1337.4
40°	1398.8	1385.4	1338.5	1289.4	1264.9
42.5°	1339.6	1324.0	1270.5	1218.1	1191.3
45°	1274.9	1263.8	1203.6	1140.0	1121.0
47.5°	1208.0	1198.0	1126.6	1065.2	1040.7
50°	1143.3	1131.0	1045.2	986.0	963.7
52.5°	1073.0	1053.0	968.2	910.2	889.0
55°	1000.5	970.4	889.0	836.6	807.6
57.5°	923.6	895.7	805.3	750.7	727.3
60°	856.7	817.6	725.0	669.3	639.1
62.5°	770.8	737.3	649.2	583.4	568.9
65°	699.4	647.0	562.2	501.9	483.0
67.5°	626.9	565.5	479.6	418.3	408.2
70°	547.7	484.1	396.0	335.7	319.0
72.5°	467.4	404.9	319.0	255.4	245.4
75°	389.3	317.9	236.5	187.4	166.2
77.5°	304.5	239.8	166.2	114.9	101.5
80°	226.4	161.7	95.9	68.0	66.9
82.5°	148.4	93.7	51.3	52.4	50.2
85°	75.8	40.2	34.6	33.5	32.3
87.5°	14.5	15.6	16.7	16.7	16.7
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)