

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: P1050547

Luminaire Tested: 24PTR-50-PB1-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050547
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737703)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-50-PB1-L830-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

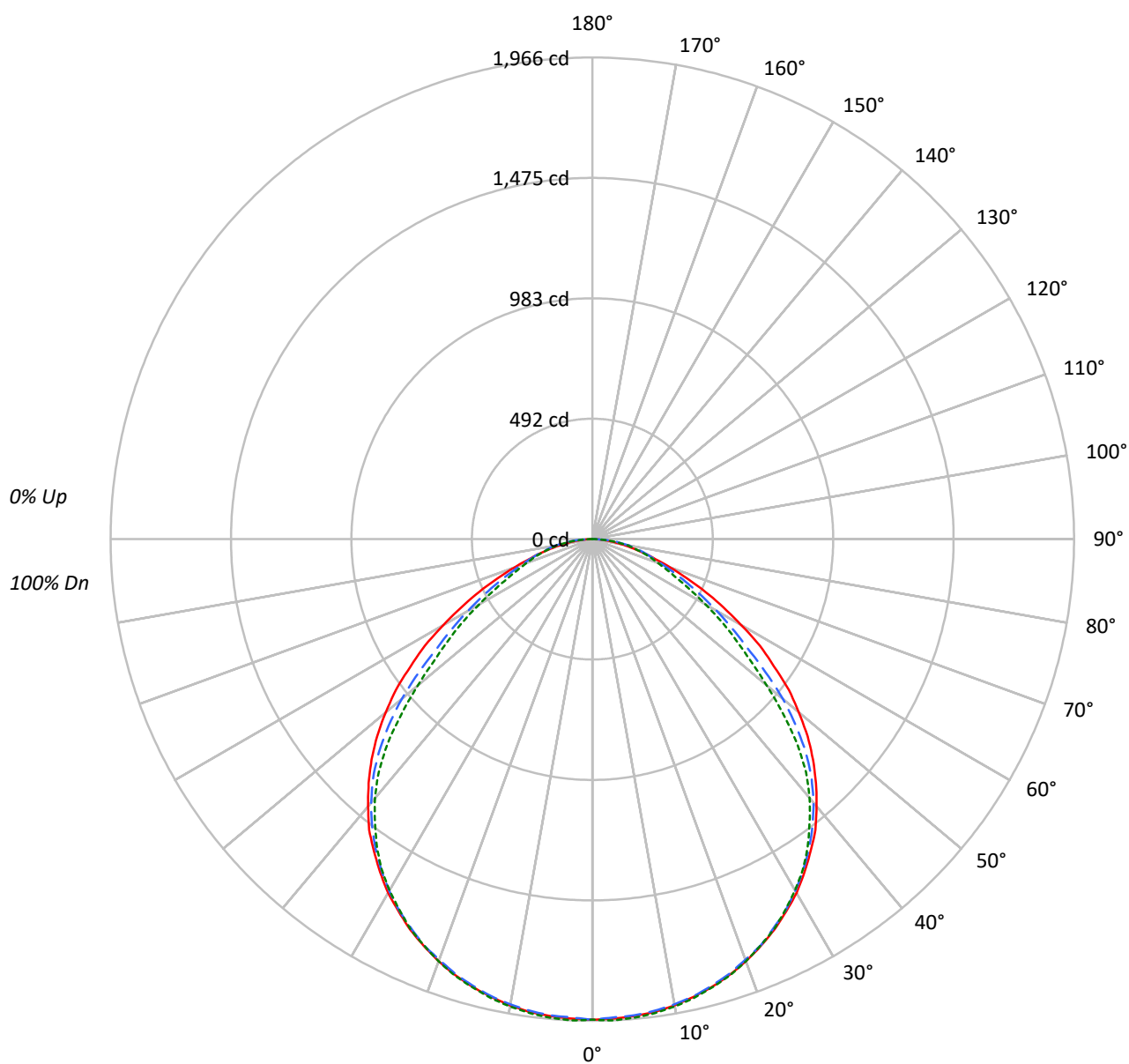
Lumens per Lamp: N/A
Luminaire Lumens: 4890.8 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1050547

CATALOG NUMBER: 24PTR-50-PB1-L830-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1050547

CATALOG NUMBER: 24PTR-50-PB1-L830-UNV-STD-W

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	93	90	91	89	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64	62		
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54		
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47		
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42		
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37		
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	33		
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30		
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2639	2639	2639
5°	2639	2636	2649
10°	2640	2634	2647
15°	2635	2628	2638
20°	2625	2615	2625
25°	2611	2600	2607
30°	2590	2575	2571
35°	2552	2532	2517
40°	2500	2466	2423
45°	2424	2346	2249
50°	2303	2126	1944
55°	2122	1806	1675
60°	1889	1578	1435
65°	1621	1368	1222
70°	1338	1206	1120
75°	1129	1154	1092
80°	954	1178	1123
85°	747	1192	1044

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2424 cd/sqm

TEST NUMBER: P1050547

CATALOG NUMBER: 24PTR-50-PB1-L830-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.0	3.8
10°-20°	533.6	10.9
20°-30°	808.3	16.5
30°-40°	963.2	19.7
40°-50°	941.9	19.3
50°-60°	712.4	14.6
60°-70°	437.7	8.9
70°-80°	233.2	4.8
80°-90°	74.4	1.5
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°	1527.9	31.2
0°-40°	2491.1	50.9
0°-60°	4145.4	84.8
0°-90°	4890.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4890.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1961	1961	1961	1961	1961	
5°	1954	1956	1952	1959	1961	186
15°	1892	1894	1887	1894	1894	534
25°	1759	1756	1751	1754	1756	810
35°	1554	1551	1542	1534	1532	972
45°	1274	1267	1233	1192	1182	980
55°	905	859	770	726	714	810
65°	509	468	430	396	384	507
75°	217	220	222	215	210	233
85°	48	63	77	72	68	58
90°	0	0	0	0	0	

TEST NUMBER: P1050547

CATALOG NUMBER: 24PTR-50-PB1-L830-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1961.4	1961.4	1961.4	1961.4	1961.4
2.5°	1959.1	1961.4	1954.0	1963.9	1966.2
5°	1954.0	1956.5	1951.7	1959.1	1961.4
7.5°	1946.9	1946.9	1942.1	1949.2	1951.7
10°	1932.5	1932.5	1927.7	1934.8	1937.3
12.5°	1913.2	1913.2	1910.7	1915.5	1918.0
15°	1891.5	1893.7	1886.6	1893.7	1893.7
17.5°	1864.9	1862.6	1860.0	1864.9	1867.4
20°	1833.5	1833.5	1826.4	1831.2	1833.5
22.5°	1797.2	1797.2	1795.0	1797.2	1795.0
25°	1758.7	1756.2	1751.4	1753.9	1756.2
27.5°	1712.9	1712.9	1708.1	1708.1	1705.5
30°	1667.1	1664.5	1657.4	1652.6	1654.9
32.5°	1611.6	1609.1	1602.0	1597.1	1599.4
35°	1553.6	1551.3	1541.7	1534.3	1532.1
37.5°	1495.8	1488.5	1476.3	1466.7	1457.1
40°	1423.4	1416.1	1404.2	1382.4	1379.8
42.5°	1351.0	1343.9	1324.4	1298.0	1290.7
45°	1273.7	1266.6	1232.7	1191.7	1182.0
47.5°	1191.7	1179.8	1126.6	1075.9	1056.7
50°	1100.2	1078.4	1015.6	950.5	928.8
52.5°	1010.8	972.3	890.3	832.3	810.7
55°	904.7	858.9	769.7	726.1	714.0
57.5°	810.7	747.9	675.5	632.2	622.5
60°	702.1	644.1	586.3	547.6	533.1
62.5°	603.0	552.4	504.3	470.3	453.6
65°	509.1	468.1	429.6	395.6	383.7
67.5°	417.4	395.6	364.2	337.9	330.5
70°	340.1	328.0	306.5	294.3	284.7
72.5°	270.2	275.1	260.6	255.8	248.5
75°	217.1	219.6	221.9	214.8	210.0
77.5°	164.1	176.0	185.7	180.8	176.0
80°	123.1	135.0	152.0	144.9	144.9
82.5°	84.3	99.0	113.5	108.7	106.1
85°	48.4	62.8	77.2	72.4	67.6
87.5°	19.2	31.4	33.7	33.7	31.4
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)