

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: P1192904

Luminaire Tested: 24PT-50-PB1-L950

Issue Date: 10/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P1192904
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2202-549-7)
Test Lab: INNOVATION CENTER
Issue Date: 10/2/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PT-50-PB1-L950
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 90 CRI LEDS AND BEVEL LENS
Light Source: -
Ballast/Driver: -

Summary

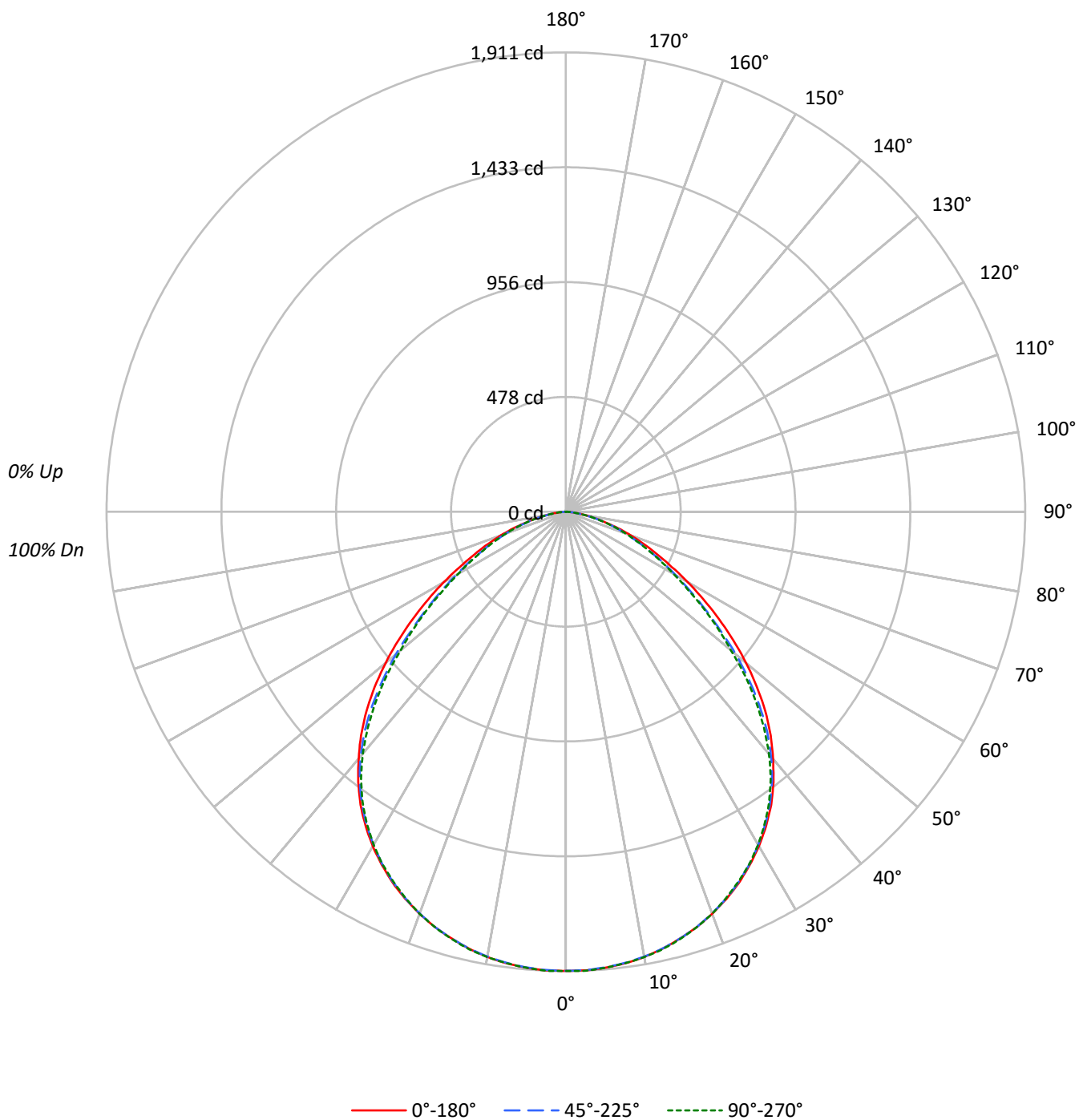
Lumens per Lamp: N/A
Luminaire Lumens: 4535.0 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.32
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1192904

CATALOG NUMBER: 24PT-50-PB1-L950

Luminous Intensity Polar Plot



TEST NUMBER: P1192904

CATALOG NUMBER: 24PT-50-PB1-L950

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	99	108	104	100	97	100	97	94		96	93	91		92
2	101	94	88	83	99	92	86	82	88	84	80		85	81	78		82
3	93	83	76	70	91	82	75	69	79	73	68		76	71	67		74
4	86	75	66	60	83	73	66	60	71	64	59		69	63	58		66
5	79	67	59	53	77	66	58	52	64	57	52		62	56	51		60
6	73	61	52	46	71	60	52	46	58	51	46		56	50	45		55
7	68	55	47	41	66	55	47	41	53	46	41		52	45	40		50
8	64	51	43	37	62	50	42	37	49	42	37		47	41	36		46
9	59	47	39	33	58	46	38	33	45	38	33		44	38	33		43
10	56	43	35	30	55	43	35	30	42	35	30		41	34	30		40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2731	2731	2731
5°	2733	2731	2733
10°	2731	2729	2732
15°	2721	2721	2724
20°	2709	2706	2709
25°	2688	2682	2679
30°	2653	2643	2641
35°	2600	2584	2574
40°	2504	2480	2455
45°	2373	2303	2264
50°	2177	2055	1997
55°	1937	1765	1739
60°	1678	1508	1482
65°	1415	1293	1278
70°	1201	1107	1114
75°	943	902	910
80°	688	675	681
85°	420	445	445

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2373 cd/sqm

TEST NUMBER: P1192904

CATALOG NUMBER: 24PT-50-PB1-L950

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.9	4.0
10°-20°	518.7	11.4
20°-30°	783.0	17.3
30°-40°	923.3	20.4
40°-50°	877.3	19.3
50°-60°	647.3	14.3
60°-70°	390.7	8.6
70°-80°	178.8	3.9
80°-90°	34.9	0.8
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°	1482.6	32.7
0°-40°	2405.9	53.1
0°-60°	3930.5	86.7
0°-90°	4535.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4535.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1910	1910	1910	1910	1910	
5°	1904	1904	1902	1901	1904	181
15°	1838	1838	1838	1837	1840	519
25°	1704	1703	1700	1697	1698	784
35°	1489	1487	1480	1474	1474	928
45°	1173	1165	1139	1123	1119	901
55°	777	745	708	691	697	696
65°	418	405	382	375	378	420
75°	171	168	163	161	165	186
85°	26	26	27	26	27	34
90°	0	0	0	0	0	

TEST NUMBER: P1192904

CATALOG NUMBER: 24PT-50-PB1-L950

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1909.8	1909.8	1909.8	1909.8	1909.8
2.5°	1909.8	1909.8	1908.3	1906.8	1911.3
5°	1903.8	1904.5	1902.3	1900.8	1903.8
7.5°	1894.8	1894.8	1892.5	1891.0	1894.0
10°	1880.5	1880.5	1879.0	1878.2	1881.2
12.5°	1861.7	1862.4	1860.9	1860.2	1863.9
15°	1837.6	1838.3	1837.6	1836.8	1839.8
17.5°	1812.0	1812.8	1811.3	1809.0	1812.0
20°	1779.7	1781.2	1778.2	1776.7	1779.7
22.5°	1743.6	1745.1	1742.1	1740.6	1740.6
25°	1703.7	1702.9	1699.9	1696.9	1697.7
27.5°	1657.1	1657.8	1653.3	1650.3	1652.6
30°	1606.7	1607.4	1600.7	1598.4	1599.1
32.5°	1550.3	1549.5	1543.5	1539.7	1539.7
35°	1489.3	1487.1	1480.3	1474.3	1474.3
37.5°	1418.6	1417.1	1409.6	1402.1	1399.8
40°	1341.1	1339.6	1328.4	1318.6	1314.8
42.5°	1261.4	1256.9	1238.8	1223.8	1220.0
45°	1173.4	1165.1	1138.8	1123.0	1119.3
47.5°	1078.6	1068.1	1032.0	1013.9	1012.4
50°	978.6	959.8	923.7	900.4	897.4
52.5°	877.8	850.7	809.4	792.1	796.6
55°	777.0	745.4	707.8	691.3	697.3
57.5°	679.2	646.1	613.8	597.2	601.0
60°	586.7	558.1	527.3	513.7	518.3
62.5°	495.7	477.6	451.3	439.3	445.3
65°	418.2	404.7	382.1	374.6	377.6
67.5°	350.5	340.0	320.4	314.4	318.9
70°	287.3	279.8	264.8	262.5	266.3
72.5°	227.2	222.6	214.4	210.6	212.9
75°	170.7	167.7	163.2	161.0	164.7
77.5°	123.4	121.1	119.6	119.6	120.3
80°	83.5	82.7	82.0	81.2	82.7
82.5°	51.1	51.1	51.1	51.1	51.9
85°	25.6	26.3	27.1	26.3	27.1
87.5°	8.3	9.0	9.8	9.8	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)