

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: P1050844

Luminaire Tested: 24PTR-50-PLG-L940-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050844
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-L940-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

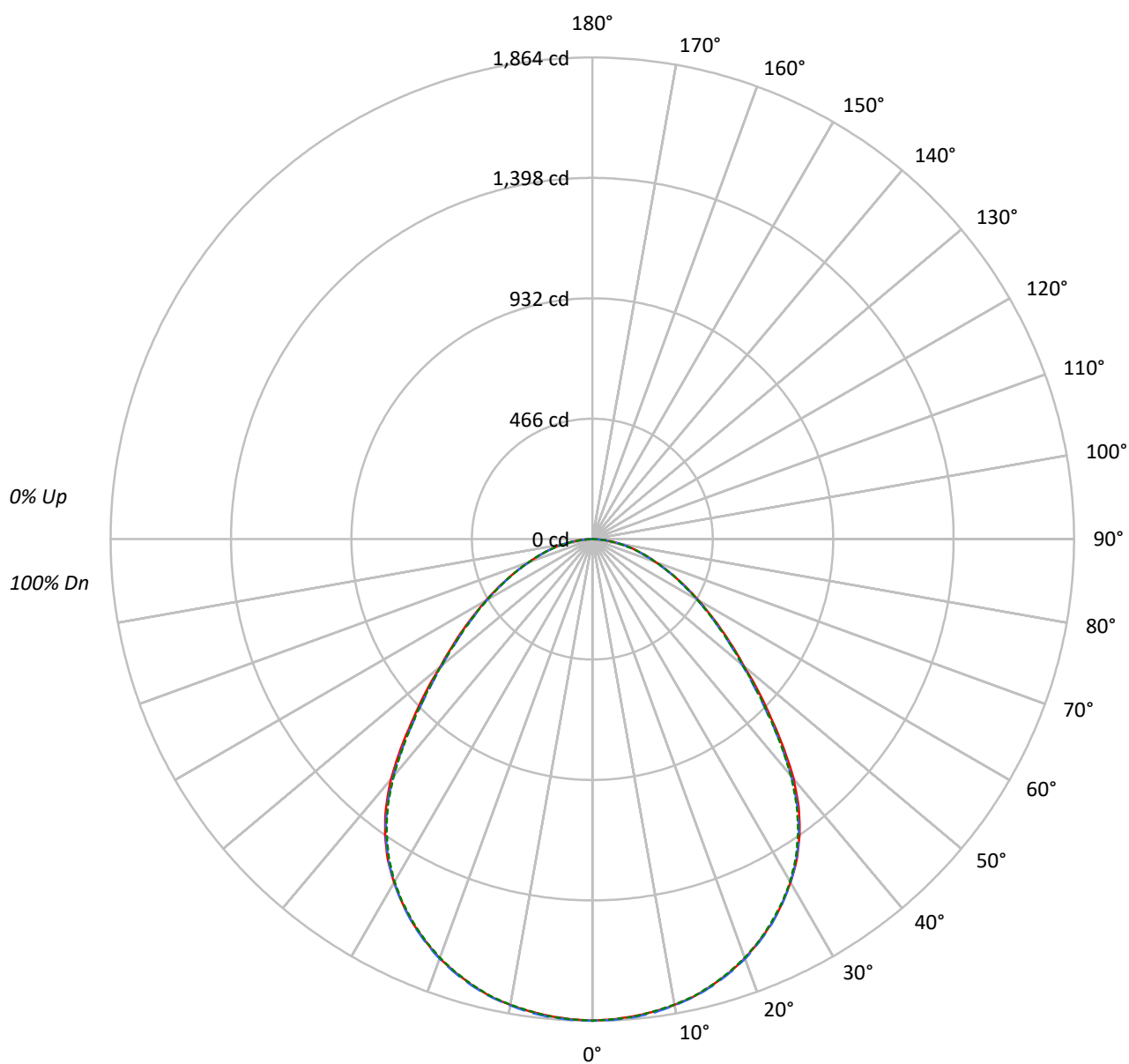
Lumens per Lamp: N/A
Luminaire Lumens: 4199.6 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1050844

CATALOG NUMBER: 24PTR-50-PLG-L940-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1050844

CATALOG NUMBER: 24PTR-50-PLG-L940-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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74		
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	69	66	64		
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56		
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49		
6	74	61	53	47	72	60	52	47	58	51	46	57	51	46	55	50	45	43		
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39		
8	64	51	43	38	62	51	43	38	49	42	37	48	42	37	47	41	37	35		
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32		
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2508	2508	2508
5°	2503	2508	2505
10°	2501	2503	2499
15°	2491	2495	2489
20°	2472	2475	2468
25°	2437	2439	2431
30°	2384	2384	2378
35°	2297	2290	2279
40°	2128	2105	2098
45°	1860	1830	1837
50°	1606	1586	1595
55°	1427	1406	1409
60°	1278	1260	1260
65°	1145	1137	1141
70°	1030	1020	1030
75°	956	942	956
80°	892	882	851
85°	755	755	675

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1860 cd/sqm

TEST NUMBER: P1050844

CATALOG NUMBER: 24PTR-50-PLG-L940-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.5	4.2
10°-20°	504.9	12.0
20°-30°	755.5	18.0
30°-40°	865.6	20.6
40°-50°	748.6	17.8
50°-60°	541.8	12.9
60°-70°	356.9	8.5
70°-80°	194.3	4.6
80°-90°	55.7	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°	1436.8	34.2
0°-40°	2302.4	54.8
0°-60°	3592.8	85.6
0°-90°	4199.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4199.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1864	1864	1864	1864	1864	
5°	1853	1857	1857	1857	1854	176
15°	1788	1790	1791	1794	1787	504
25°	1642	1642	1643	1644	1638	755
35°	1398	1397	1394	1393	1388	869
45°	978	975	962	960	966	757
55°	608	606	599	595	600	548
65°	360	362	357	354	358	359
75°	184	184	181	181	184	196
85°	49	49	49	50	44	57
90°	0	0	0	0	0	

TEST NUMBER: P1050844

CATALOG NUMBER: 24PTR-50-PLG-L940-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1863.8	1863.8	1863.8	1863.8	1863.8
2.5°	1859.8	1863.8	1862.4	1863.8	1859.8
5°	1853.2	1857.2	1857.2	1857.2	1854.5
7.5°	1843.9	1846.6	1847.9	1849.2	1842.6
10°	1830.7	1833.3	1832.0	1834.7	1829.4
12.5°	1813.5	1813.5	1814.8	1817.5	1812.2
15°	1788.4	1789.7	1791.0	1793.7	1787.0
17.5°	1759.3	1760.6	1761.9	1763.2	1757.9
20°	1726.2	1726.2	1728.8	1730.2	1723.6
22.5°	1685.2	1685.2	1687.8	1691.8	1683.9
25°	1641.5	1641.5	1642.9	1644.2	1637.6
27.5°	1590.0	1590.0	1591.3	1595.2	1587.3
30°	1534.4	1533.1	1534.4	1535.7	1530.4
32.5°	1472.2	1470.9	1469.6	1470.9	1464.3
35°	1398.2	1396.8	1394.2	1392.9	1387.6
37.5°	1312.2	1309.5	1304.2	1304.2	1298.9
40°	1211.6	1205.0	1198.4	1195.8	1194.4
42.5°	1095.2	1090.0	1080.7	1079.4	1079.4
45°	977.5	974.9	961.6	960.3	965.6
47.5°	871.7	865.1	853.2	850.5	858.5
50°	767.2	768.5	757.9	754.0	761.9
52.5°	685.2	682.5	673.3	670.6	677.3
55°	608.5	605.8	599.2	595.2	600.5
57.5°	538.4	537.0	530.4	529.1	531.7
60°	474.9	473.5	468.3	466.9	468.3
62.5°	415.3	415.3	410.1	407.4	411.4
65°	359.8	362.4	357.1	354.5	358.5
67.5°	309.5	312.2	306.9	304.2	309.5
70°	261.9	264.6	259.3	256.6	261.9
72.5°	220.9	222.2	218.3	216.9	223.5
75°	183.9	183.9	181.2	181.2	183.9
77.5°	149.5	148.1	146.8	146.8	144.2
80°	115.1	113.8	113.8	113.8	109.8
82.5°	82.0	79.4	80.7	82.0	75.4
85°	48.9	48.9	48.9	50.3	43.7
87.5°	19.8	19.8	18.5	19.8	17.2
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)