

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: P1050767

Luminaire Tested: 24PTR-50-PL1-L940-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050767
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737719)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-50-PL1-L940-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

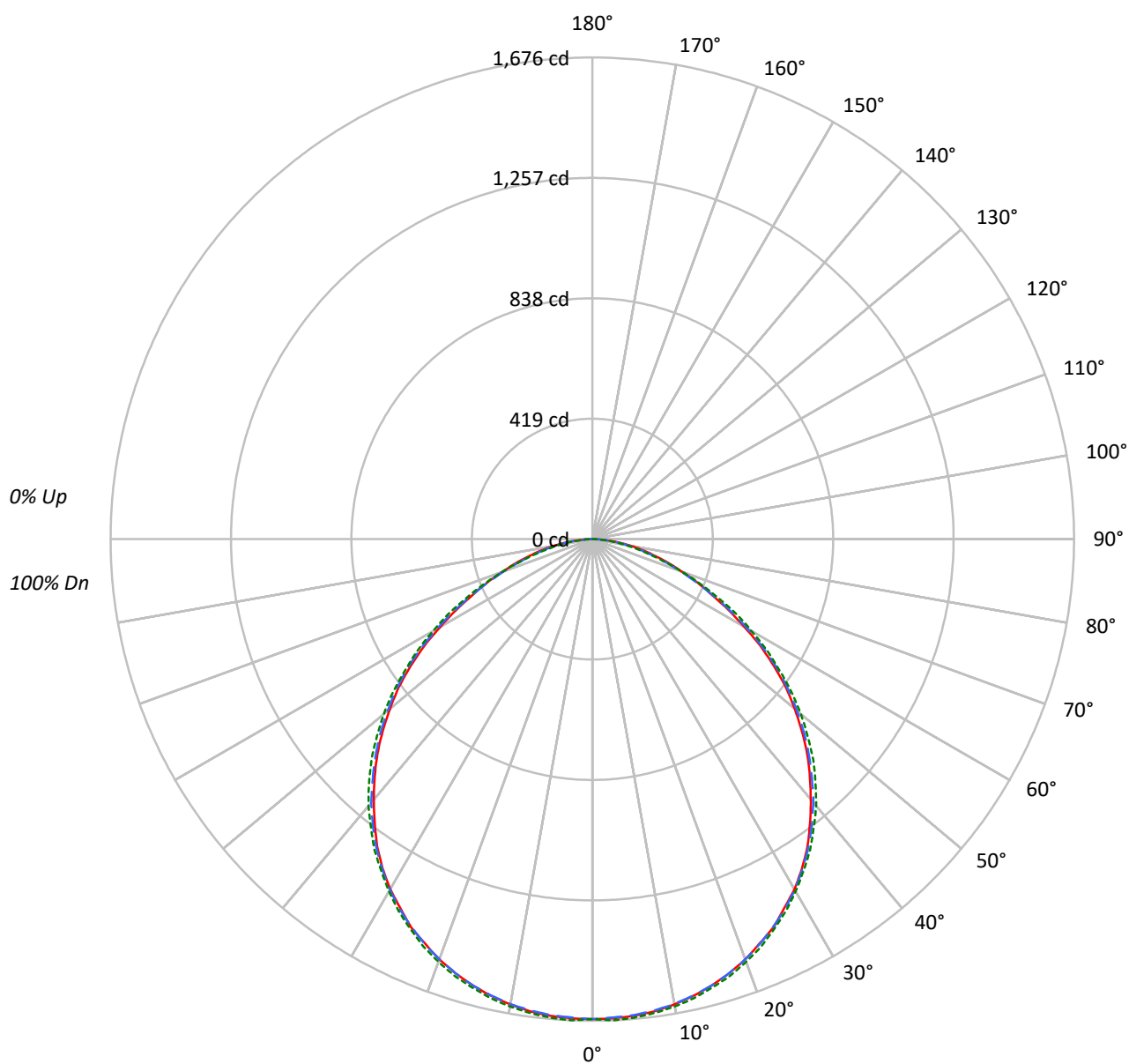
Lumens per Lamp: N/A
Luminaire Lumens: 4402.8 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1050767

CATALOG NUMBER: 24PTR-50-PL1-L940-UNV-STD-W

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	94	92	90	91	89	87	87	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	74	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	63	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	55	55	52
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	48	48	46
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	42	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	37	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	34	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	30	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2247	2247	2247
5°	2249	2245	2257
10°	2246	2244	2256
15°	2240	2239	2250
20°	2228	2228	2241
25°	2213	2210	2222
30°	2185	2188	2199
35°	2144	2152	2169
40°	2077	2101	2128
45°	2012	2029	2068
50°	1924	1944	1983
55°	1812	1841	1863
60°	1643	1679	1720
65°	1460	1475	1535
70°	1305	1278	1310
75°	1177	1109	1087
80°	1070	993	882
85°	906	823	709

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2068 cd/sqm

TEST NUMBER: P1050767

CATALOG NUMBER: 24PTR-50-PL1-L940-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.4	3.6
10°-20°	454.4	10.3
20°-30°	687.4	15.6
30°-40°	819.3	18.6
40°-50°	823.9	18.7
50°-60°	699.2	15.9
60°-70°	465.6	10.6
70°-80°	232.5	5.3
80°-90°	62.2	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°	1300.2	29.5
0°-40°	2119.5	48.1
0°-60°	3642.6	82.7
0°-90°	4402.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4402.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1670	1670	1670	1670	1670	
5°	1665	1666	1662	1670	1671	158
15°	1608	1610	1607	1614	1615	454
25°	1491	1491	1489	1496	1497	685
35°	1305	1306	1310	1319	1321	814
45°	1058	1059	1066	1080	1087	814
55°	772	778	785	792	794	688
65°	458	462	463	470	482	460
75°	226	223	213	208	209	243
85°	59	58	53	50	46	68
90°	0	0	0	0	0	

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CATALOG NUMBER: 24PTR-50-PL1-L940-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1670.3	1670.3	1670.3	1670.3	1670.3
2.5°	1668.9	1670.3	1665.8	1673.9	1675.9
5°	1665.4	1665.8	1662.2	1669.6	1671.4
7.5°	1657.3	1657.9	1654.1	1662.2	1663.3
10°	1644.2	1645.6	1642.4	1649.8	1651.6
12.5°	1627.6	1629.4	1626.2	1634.3	1635.7
15°	1607.8	1609.6	1607.1	1613.9	1615.2
17.5°	1583.5	1584.8	1583.5	1589.8	1593.4
20°	1556.3	1556.3	1556.3	1561.9	1565.1
22.5°	1522.3	1525.5	1524.1	1531.6	1534.7
25°	1490.9	1490.9	1488.8	1495.8	1496.9
27.5°	1446.8	1451.7	1451.3	1457.4	1458.7
30°	1406.5	1407.9	1408.6	1412.8	1415.3
32.5°	1357.7	1358.9	1360.9	1367.0	1367.6
35°	1305.1	1306.5	1310.1	1319.3	1320.6
37.5°	1244.0	1250.7	1253.8	1263.7	1264.9
40°	1182.6	1186.8	1196.3	1206.6	1211.6
42.5°	1120.1	1125.0	1130.6	1144.8	1149.3
45°	1057.5	1059.3	1066.3	1080.5	1086.8
47.5°	988.3	993.9	1000.0	1012.3	1016.2
50°	919.0	925.1	928.9	939.9	947.4
52.5°	849.1	854.7	859.0	865.7	873.2
55°	772.4	777.8	784.8	792.2	794.0
57.5°	694.4	700.5	705.0	712.8	720.9
60°	610.7	617.7	623.8	631.2	639.3
62.5°	532.9	535.9	542.1	554.5	566.2
65°	458.5	462.3	463.4	470.4	482.1
67.5°	396.7	396.7	391.0	393.5	406.6
70°	331.7	329.2	324.9	322.5	333.0
72.5°	279.1	275.9	266.7	262.4	268.0
75°	226.4	223.3	213.4	208.4	209.1
77.5°	181.9	177.0	168.9	160.3	158.5
80°	138.1	136.0	128.2	120.1	113.8
82.5°	97.8	93.5	89.0	84.1	79.2
85°	58.7	57.6	53.3	50.1	45.9
87.5°	24.1	24.1	22.9	21.6	20.5
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)