

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: P1050745

Luminaire Tested: 24PTR-50-PL1-L930-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050745
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-L930-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 90 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

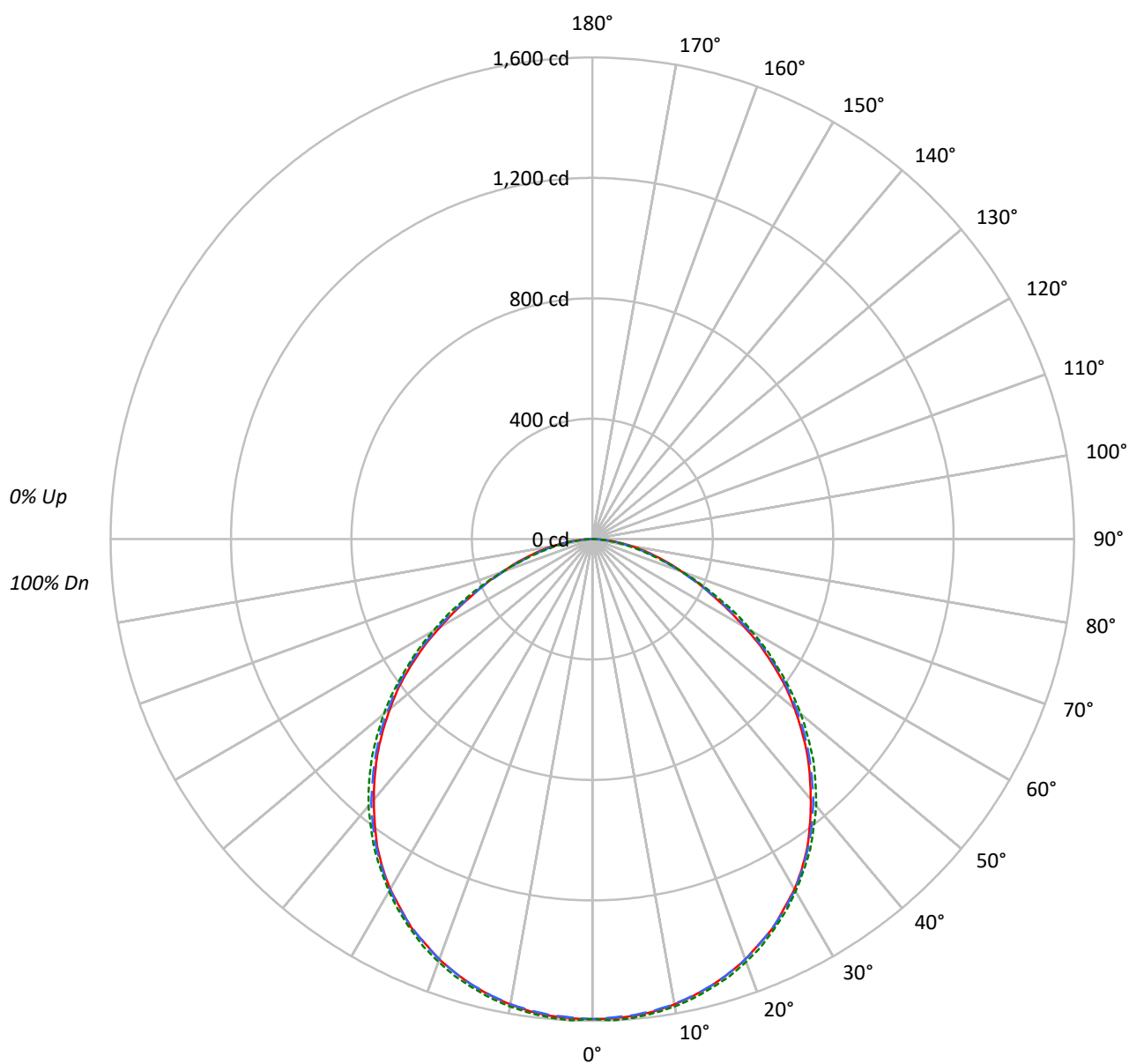
Lumens per Lamp: N/A
Luminaire Lumens: 4203.0 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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: P1050745

CATALOG NUMBER: 24PTR-50-PL1-L930-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°	2145	2145	2145
5°	2147	2143	2155
10°	2144	2142	2154
15°	2138	2137	2148
20°	2127	2127	2139
25°	2113	2110	2121
30°	2086	2089	2099
35°	2046	2054	2071
40°	1983	2006	2031
45°	1921	1937	1974
50°	1836	1856	1893
55°	1730	1757	1778
60°	1569	1602	1642
65°	1394	1408	1465
70°	1245	1220	1251
75°	1124	1059	1038
80°	1021	948	841
85°	865	786	676

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1974 cd/sqm

TEST NUMBER: P1050745

CATALOG NUMBER: 24PTR-50-PL1-L930-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.2	3.6
10°-20°	433.8	10.3
20°-30°	656.2	15.6
30°-40°	782.1	18.6
40°-50°	786.5	18.7
50°-60°	667.5	15.9
60°-70°	444.4	10.6
70°-80°	221.9	5.3
80°-90°	59.4	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°	1241.2	29.5
0°-40°	2023.3	48.1
0°-60°	3477.3	82.7
0°-90°	4203.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4203.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1594	1594	1594	1594	1594	
5°	1590	1590	1587	1594	1596	151
15°	1535	1536	1534	1541	1542	433
25°	1423	1423	1421	1428	1429	654
35°	1246	1247	1251	1259	1261	777
45°	1010	1011	1018	1031	1038	777
55°	737	742	749	756	758	657
65°	438	441	442	449	460	439
75°	216	213	204	199	200	232
85°	56	55	51	48	44	65
90°	0	0	0	0	0	

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CATALOG NUMBER: 24PTR-50-PL1-L930-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1594.5	1594.5	1594.5	1594.5	1594.5
2.5°	1593.2	1594.5	1590.2	1597.9	1599.9
5°	1589.8	1590.2	1586.8	1593.8	1595.6
7.5°	1582.0	1582.7	1579.0	1586.8	1587.8
10°	1569.6	1570.9	1567.9	1575.0	1576.7
12.5°	1553.7	1555.4	1552.4	1560.1	1561.4
15°	1534.8	1536.5	1534.2	1540.6	1541.9
17.5°	1511.6	1512.9	1511.6	1517.6	1521.1
20°	1485.7	1485.7	1485.7	1491.0	1494.0
22.5°	1453.2	1456.3	1455.0	1462.0	1465.1
25°	1423.2	1423.2	1421.3	1427.9	1429.0
27.5°	1381.1	1385.8	1385.4	1391.2	1392.5
30°	1342.7	1344.0	1344.6	1348.7	1351.1
32.5°	1296.1	1297.2	1299.1	1304.9	1305.6
35°	1245.9	1247.2	1250.6	1259.4	1260.7
37.5°	1187.5	1193.9	1196.9	1206.4	1207.5
40°	1128.9	1133.0	1142.0	1151.9	1156.6
42.5°	1069.2	1073.9	1079.3	1092.8	1097.1
45°	1009.5	1011.3	1017.9	1031.4	1037.5
47.5°	943.4	948.8	954.6	966.4	970.0
50°	877.3	883.1	886.8	897.3	904.4
52.5°	810.6	815.9	820.0	826.4	833.5
55°	737.4	742.5	749.2	756.2	758.0
57.5°	662.9	668.7	673.0	680.5	688.2
60°	583.0	589.7	595.5	602.5	610.3
62.5°	508.7	511.5	517.5	529.4	540.5
65°	437.7	441.3	442.4	449.1	460.2
67.5°	378.7	378.7	373.3	375.7	388.1
70°	316.6	314.3	310.2	307.8	317.9
72.5°	266.4	263.4	254.6	250.5	255.9
75°	216.2	213.2	203.7	199.0	199.6
77.5°	173.7	168.9	161.2	153.1	151.3
80°	131.8	129.9	122.4	114.6	108.6
82.5°	93.4	89.3	85.0	80.3	75.6
85°	56.0	55.0	50.9	47.9	43.8
87.5°	23.0	23.0	21.9	20.6	19.5
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)