

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: P1050778

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

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050778
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-L830-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

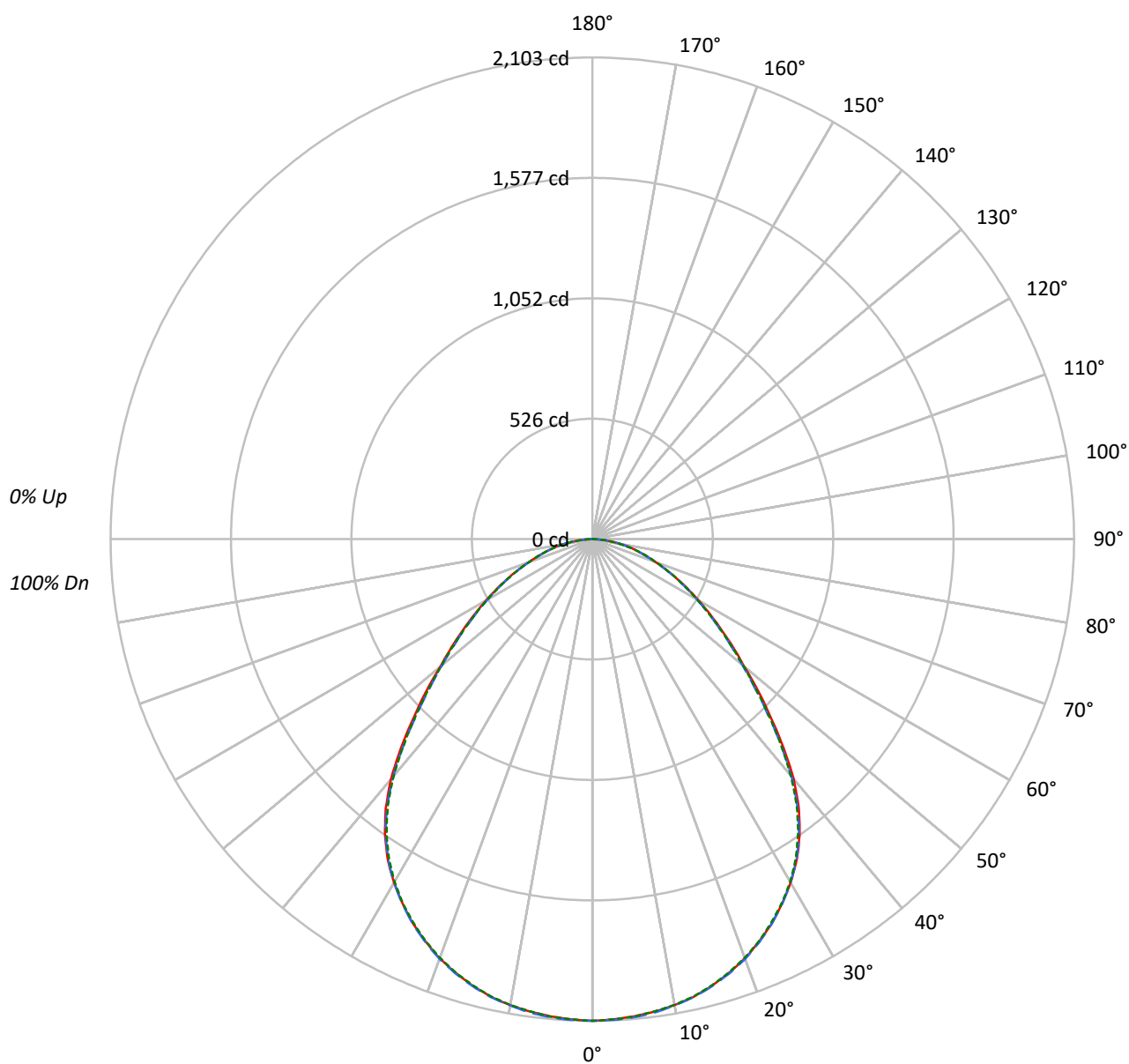
Lumens per Lamp: N/A
Luminaire Lumens: 4739.1 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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: P1050778

CATALOG NUMBER: 24PTR-50-PLG-L830-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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86	84	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74	72	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	69	66	64	62	64
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56	54	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49	47	49
6	74	61	53	47	72	60	52	47	58	51	46	57	51	46	55	50	45	43	41	43
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39	37	39
8	64	51	43	38	62	51	43	38	49	42	37	48	42	37	47	41	37	35	33	35
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32	30	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29	27	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2830	2830	2830
5°	2825	2831	2827
10°	2823	2825	2820
15°	2811	2815	2809
20°	2789	2793	2785
25°	2750	2752	2744
30°	2690	2690	2683
35°	2592	2584	2572
40°	2402	2375	2367
45°	2099	2065	2073
50°	1812	1790	1800
55°	1611	1586	1590
60°	1442	1422	1422
65°	1293	1283	1288
70°	1163	1151	1163
75°	1079	1063	1079
80°	1007	995	960
85°	852	852	761

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2099 cd/sqm

TEST NUMBER: P1050778

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.1	4.2
10°-20°	569.8	12.0
20°-30°	852.5	18.0
30°-40°	976.8	20.6
40°-50°	844.8	17.8
50°-60°	611.4	12.9
60°-70°	402.7	8.5
70°-80°	219.2	4.6
80°-90°	62.8	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°	1621.4	34.2
0°-40°	2598.2	54.8
0°-60°	4054.4	85.6
0°-90°	4739.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4739.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2103	2103	2103	2103	2103	
5°	2091	2096	2096	2096	2093	199
15°	2018	2020	2021	2024	2017	569
25°	1852	1852	1854	1855	1848	852
35°	1578	1576	1573	1572	1566	980
45°	1103	1100	1085	1084	1090	854
55°	687	684	676	672	678	618
65°	406	409	403	400	404	405
75°	208	208	204	204	208	221
85°	55	55	55	57	49	64
90°	0	0	0	0	0	

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2103.2	2103.2	2103.2	2103.2	2103.2
2.5°	2098.7	2103.2	2101.7	2103.2	2098.7
5°	2091.3	2095.7	2095.7	2095.7	2092.8
7.5°	2080.8	2083.8	2085.3	2086.8	2079.3
10°	2065.9	2068.9	2067.4	2070.4	2064.4
12.5°	2046.5	2046.5	2048.0	2051.0	2045.0
15°	2018.1	2019.6	2021.1	2024.1	2016.6
17.5°	1985.3	1986.8	1988.3	1989.8	1983.8
20°	1948.0	1948.0	1950.9	1952.4	1945.0
22.5°	1901.7	1901.7	1904.7	1909.2	1900.2
25°	1852.4	1852.4	1853.9	1855.4	1848.0
27.5°	1794.2	1794.2	1795.7	1800.2	1791.2
30°	1731.5	1730.0	1731.5	1733.0	1727.0
32.5°	1661.4	1659.9	1658.4	1659.9	1652.4
35°	1577.8	1576.3	1573.3	1571.8	1565.8
37.5°	1480.7	1477.8	1471.8	1471.8	1465.8
40°	1367.3	1359.8	1352.4	1349.4	1347.9
42.5°	1235.9	1230.0	1219.5	1218.0	1218.0
45°	1103.1	1100.1	1085.2	1083.7	1089.7
47.5°	983.7	976.2	962.8	959.8	968.8
50°	865.8	867.3	855.3	850.8	859.8
52.5°	773.2	770.2	759.8	756.8	764.3
55°	686.6	683.7	676.2	671.7	677.7
57.5°	607.5	606.0	598.6	597.1	600.1
60°	535.9	534.4	528.4	526.9	528.4
62.5°	468.7	468.7	462.7	459.7	464.2
65°	406.0	409.0	403.0	400.0	404.5
67.5°	349.3	352.3	346.3	343.3	349.3
70°	295.6	298.5	292.6	289.6	295.6
72.5°	249.3	250.8	246.3	244.8	252.3
75°	207.5	207.5	204.5	204.5	207.5
77.5°	168.7	167.2	165.7	165.7	162.7
80°	129.9	128.4	128.4	128.4	123.9
82.5°	92.5	89.6	91.1	92.5	85.1
85°	55.2	55.2	55.2	56.7	49.3
87.5°	22.4	22.4	20.9	22.4	19.4
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)