

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: P1050932

Luminaire Tested: 24PTR-50-PR1-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050932
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737735)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-50-PR1-L830-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND RIPPLE LENS

Light Source:
Ballast/Driver: -

Summary

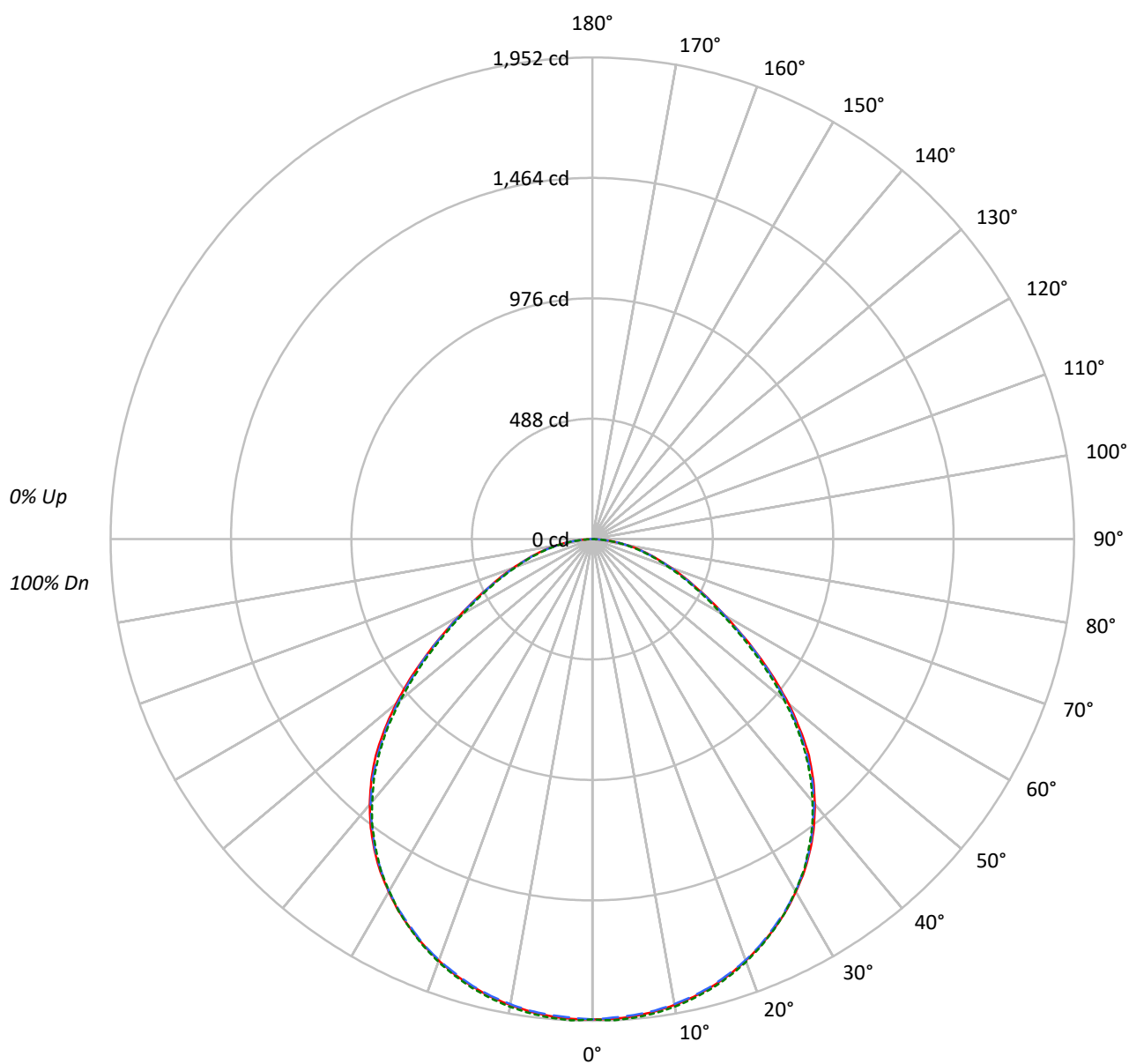
Lumens per Lamp: N/A
Luminaire Lumens: 4922.7 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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: P1050932

CATALOG NUMBER: 24PTR-50-PR1-L830-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1050932

CATALOG NUMBER: 24PTR-50-PR1-L830-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	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62		
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54		
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	47		
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41		
7	67	54	45	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37		
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33		
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30		
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2619	2619	2619
5°	2622	2616	2630
10°	2619	2615	2629
15°	2614	2610	2623
20°	2604	2600	2610
25°	2586	2580	2589
30°	2563	2560	2557
35°	2528	2522	2512
40°	2464	2455	2437
45°	2362	2335	2318
50°	2173	2148	2122
55°	1923	1915	1877
60°	1671	1665	1620
65°	1473	1464	1435
70°	1336	1317	1290
75°	1237	1208	1186
80°	1130	1113	1076
85°	892	885	849

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2362 cd/sqm

TEST NUMBER: P1050932

CATALOG NUMBER: 24PTR-50-PR1-L830-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.6	3.8
10°-20°	530.0	10.8
20°-30°	802.9	16.3
30°-40°	958.5	19.5
40°-50°	942.6	19.1
50°-60°	728.5	14.8
60°-70°	459.4	9.3
70°-80°	248.5	5.0
80°-90°	67.9	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°	1517.5	30.8
0°-40°	2475.9	50.3
0°-60°	4147.0	84.2
0°-90°	4922.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4922.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1946	1946	1946	1946	1946	
5°	1941	1942	1937	1945	1947	185
15°	1877	1877	1874	1880	1883	530
25°	1742	1744	1738	1744	1744	803
35°	1539	1540	1536	1534	1529	961
45°	1241	1236	1227	1218	1218	950
55°	820	827	816	803	800	736
65°	463	463	460	452	451	465
75°	238	235	232	234	228	253
85°	58	59	57	58	55	69
90°	0	0	0	0	0	

TEST NUMBER: P1050932

CATALOG NUMBER: 24PTR-50-PR1-L830-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1946.5	1946.5	1946.5	1946.5	1946.5
2.5°	1945.8	1946.5	1941.0	1950.1	1952.1
5°	1941.0	1941.7	1936.6	1945.0	1947.3
7.5°	1931.1	1932.6	1927.8	1936.1	1938.2
10°	1917.1	1918.6	1913.8	1922.2	1924.2
12.5°	1899.9	1900.4	1896.3	1903.9	1906.0
15°	1876.8	1877.3	1874.0	1880.1	1882.9
17.5°	1850.2	1851.0	1846.1	1853.8	1855.0
20°	1818.3	1818.8	1816.0	1822.3	1823.1
22.5°	1782.5	1784.0	1779.7	1785.3	1786.1
25°	1742.2	1743.5	1737.9	1743.5	1744.2
27.5°	1699.6	1700.1	1695.3	1699.6	1698.9
30°	1649.9	1654.3	1647.9	1646.4	1645.9
32.5°	1598.5	1599.0	1592.9	1591.4	1594.2
35°	1539.2	1539.7	1535.6	1533.6	1529.3
37.5°	1474.3	1474.3	1466.4	1465.2	1464.4
40°	1403.1	1402.3	1397.5	1392.7	1387.6
42.5°	1325.5	1327.0	1317.1	1308.8	1307.5
45°	1241.1	1236.3	1227.1	1217.5	1218.3
47.5°	1141.5	1142.7	1130.3	1122.4	1120.4
50°	1038.0	1038.0	1026.4	1018.0	1013.7
52.5°	930.0	930.8	919.7	908.5	906.2
55°	819.8	826.6	816.2	803.0	800.3
57.5°	716.6	722.2	712.3	698.4	697.6
60°	621.0	621.6	618.8	605.6	602.0
62.5°	539.4	535.9	534.4	527.5	523.2
65°	462.6	463.4	459.8	452.0	450.7
67.5°	400.5	399.7	393.4	388.6	385.8
70°	339.7	337.6	334.9	330.8	328.0
72.5°	285.4	285.4	283.1	281.9	277.1
75°	238.0	235.2	232.4	233.7	228.1
77.5°	192.7	189.9	187.6	184.8	183.5
80°	145.8	143.0	143.7	139.4	138.9
82.5°	101.1	101.1	99.9	96.3	97.1
85°	57.8	58.6	57.3	57.8	55.0
87.5°	21.0	21.5	23.1	21.5	21.5
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)