

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: P1050701

Luminaire Tested: 24PTR-50-PL1-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050701
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-L830-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

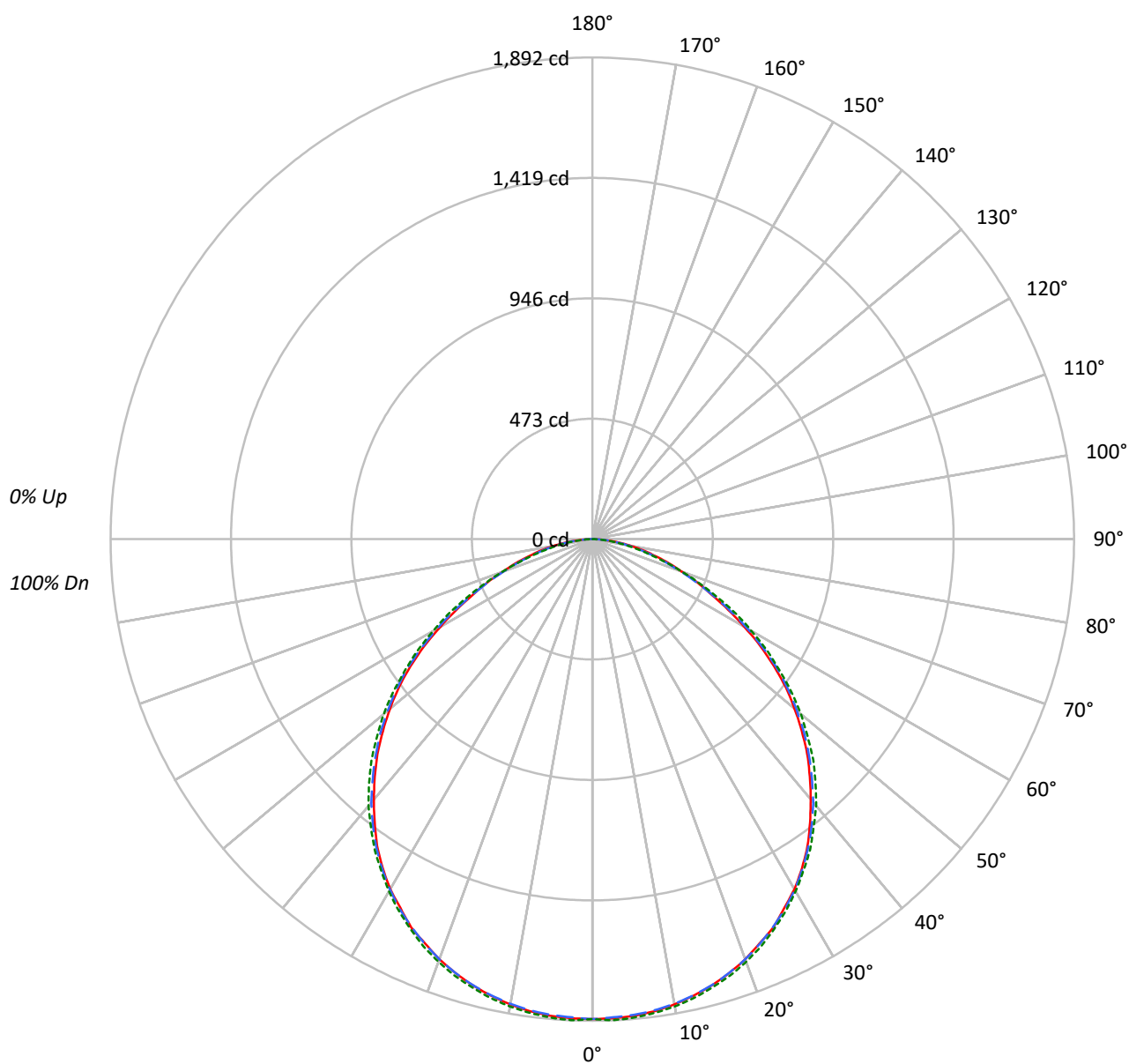
Lumens per Lamp: N/A
Luminaire Lumens: 4969.3 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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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°	2537	2537	2537
5°	2539	2534	2548
10°	2535	2533	2547
15°	2528	2527	2539
20°	2515	2515	2529
25°	2498	2495	2508
30°	2466	2470	2482
35°	2419	2429	2448
40°	2344	2372	2402
45°	2271	2290	2334
50°	2171	2195	2238
55°	2045	2078	2102
60°	1855	1894	1942
65°	1648	1665	1732
70°	1473	1443	1479
75°	1329	1252	1227
80°	1207	1121	995
85°	1022	928	800

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2334 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.8	3.6
10°-20°	512.9	10.3
20°-30°	775.8	15.6
30°-40°	924.7	18.6
40°-50°	929.9	18.7
50°-60°	789.2	15.9
60°-70°	525.5	10.6
70°-80°	262.4	5.3
80°-90°	70.2	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°	1467.5	29.5
0°-40°	2392.2	48.1
0°-60°	4111.3	82.7
0°-90°	4969.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4969.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1885	1885	1885	1885	1885	
5°	1880	1880	1876	1884	1886	179
15°	1815	1817	1814	1822	1823	512
25°	1683	1683	1680	1688	1690	774
35°	1473	1475	1479	1489	1490	919
45°	1194	1196	1204	1220	1227	918
55°	872	878	886	894	896	777
65°	518	522	523	531	544	519
75°	256	252	241	235	236	274
85°	66	65	60	57	52	77
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1885.2	1885.2	1885.2	1885.2	1885.2
2.5°	1883.7	1885.2	1880.1	1889.3	1891.5
5°	1879.6	1880.1	1876.1	1884.4	1886.5
7.5°	1870.5	1871.2	1866.9	1876.1	1877.3
10°	1855.8	1857.3	1853.7	1862.1	1864.1
12.5°	1837.0	1839.0	1835.5	1844.6	1846.1
15°	1814.6	1816.7	1813.9	1821.5	1823.0
17.5°	1787.2	1788.8	1787.2	1794.3	1798.4
20°	1756.5	1756.5	1756.5	1762.9	1766.4
22.5°	1718.2	1721.8	1720.2	1728.6	1732.2
25°	1682.7	1682.7	1680.4	1688.3	1689.5
27.5°	1632.9	1638.5	1638.0	1644.9	1646.4
30°	1587.5	1589.0	1589.8	1594.6	1597.4
32.5°	1532.4	1533.7	1536.0	1542.8	1543.6
35°	1473.0	1474.6	1478.6	1489.0	1490.5
37.5°	1404.0	1411.6	1415.2	1426.3	1427.6
40°	1334.7	1339.5	1350.2	1361.9	1367.5
42.5°	1264.2	1269.7	1276.1	1292.1	1297.2
45°	1193.6	1195.6	1203.5	1219.5	1226.6
47.5°	1115.4	1121.8	1128.6	1142.6	1146.9
50°	1037.3	1044.1	1048.4	1060.9	1069.2
52.5°	958.3	964.7	969.5	977.1	985.5
55°	871.8	877.9	885.8	894.1	896.2
57.5°	783.7	790.6	795.7	804.5	813.7
60°	689.3	697.2	704.0	712.4	721.5
62.5°	601.5	604.8	611.9	625.9	639.1
65°	517.5	521.8	523.1	530.9	544.1
67.5°	447.7	447.7	441.4	444.1	458.9
70°	374.4	371.6	366.7	363.9	375.9
72.5°	315.0	311.4	301.0	296.2	302.5
75°	255.6	252.0	240.9	235.3	236.0
77.5°	205.3	199.7	190.6	181.0	178.9
80°	155.8	153.5	144.7	135.5	128.4
82.5°	110.4	105.6	100.5	94.9	89.3
85°	66.2	65.0	60.1	56.6	51.8
87.5°	27.2	27.2	25.9	24.4	23.1
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)