

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: P1050855

Luminaire Tested: 24PTR-50-PP3-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050855
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737727)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-50-PP3-L830-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND PRISM LENS

Light Source:
Ballast/Driver: -

Summary

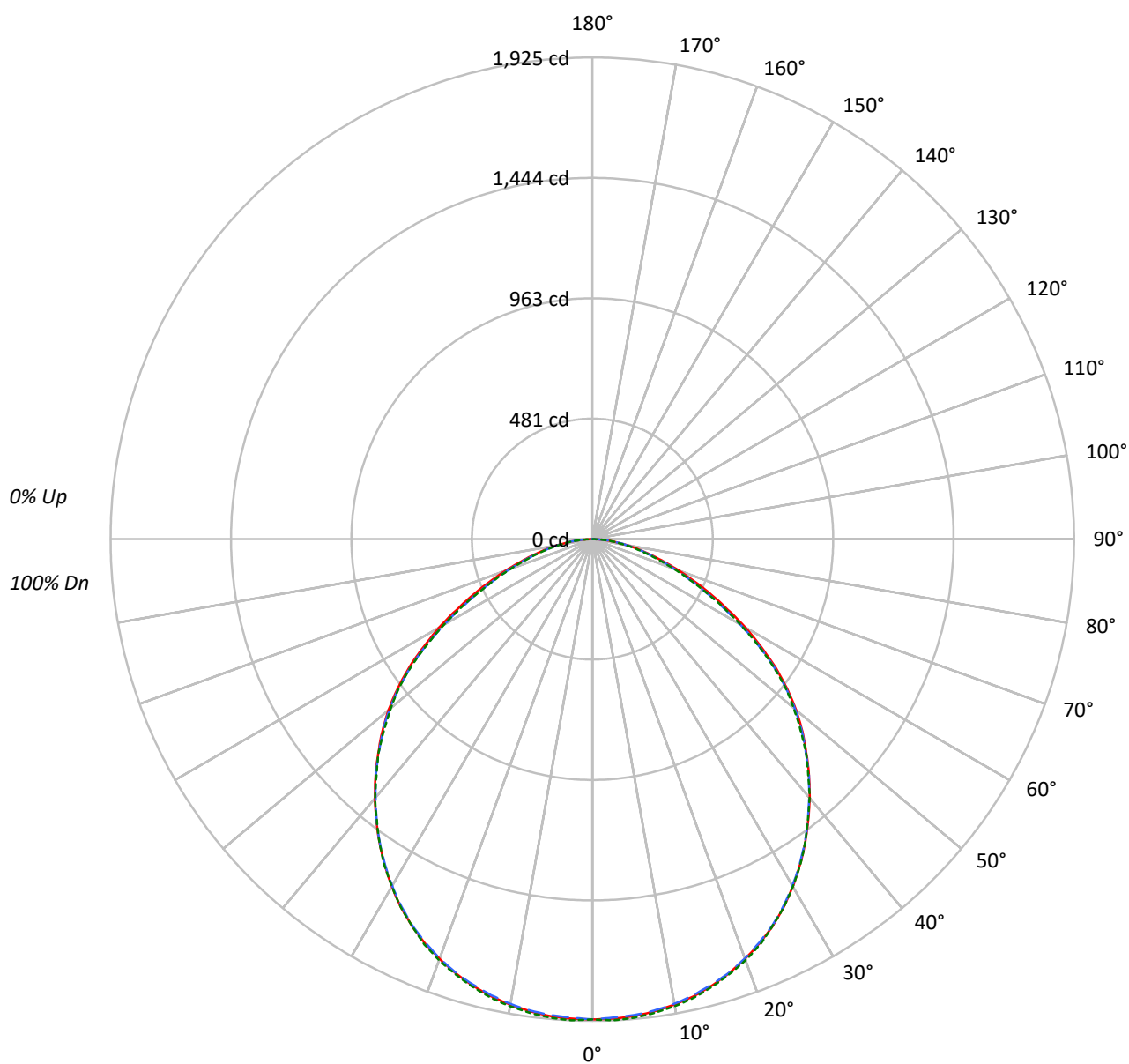
Lumens per Lamp: N/A
Luminaire Lumens: 4958.7 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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: P1050855

CATALOG NUMBER: 24PTR-50-PP3-L830-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1050855

CATALOG NUMBER: 24PTR-50-PP3-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	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	61		
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53		
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	52	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	42	40		
7	66	53	45	39	65	52	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32		
9	58	45	37	31	57	44	36	31	43	36	31	42	35	31	41	35	31	29		
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2582	2582	2582
5°	2585	2579	2593
10°	2581	2577	2590
15°	2573	2567	2579
20°	2556	2553	2564
25°	2533	2529	2532
30°	2490	2485	2490
35°	2436	2433	2435
40°	2374	2366	2372
45°	2302	2296	2298
50°	2225	2215	2199
55°	2095	2070	2064
60°	1901	1837	1840
65°	1670	1586	1584
70°	1444	1378	1362
75°	1249	1203	1176
80°	1106	1090	1041
85°	914	946	891

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 2310 cd/sqm

TEST NUMBER: P1050855

CATALOG NUMBER: 24PTR-50-PP3-L830-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.0	3.7
10°-20°	521.4	10.5
20°-30°	785.0	15.8
30°-40°	926.5	18.7
40°-50°	931.8	18.8
50°-60°	786.6	15.9
60°-70°	505.2	10.2
70°-80°	251.3	5.1
80°-90°	68.9	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°	1488.4	30.0
0°-40°	2414.9	48.7
0°-60°	4133.3	83.4
0°-90°	4958.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4958.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1919	1919	1919	1919	1919	
5°	1914	1914	1909	1918	1920	182
15°	1847	1847	1843	1852	1852	521
25°	1706	1706	1703	1706	1705	785
35°	1483	1484	1481	1482	1482	927
45°	1210	1214	1206	1208	1208	934
55°	893	892	883	879	880	794
65°	524	517	498	493	497	523
75°	240	239	231	229	226	260
85°	59	61	61	58	58	70
90°	0	0	0	0	0	

TEST NUMBER: P1050855

CATALOG NUMBER: 24PTR-50-PP3-L830-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1919.2	1919.2	1919.2	1919.2	1919.2
2.5°	1918.4	1919.2	1914.1	1923.2	1924.7
5°	1913.6	1914.1	1909.3	1918.4	1919.7
7.5°	1903.7	1904.5	1900.2	1908.5	1910.0
10°	1889.0	1891.3	1886.3	1894.1	1895.4
12.5°	1871.1	1871.8	1866.8	1875.9	1877.4
15°	1846.8	1847.3	1843.2	1851.6	1851.6
17.5°	1818.7	1819.4	1816.6	1823.7	1823.0
20°	1784.8	1786.8	1783.2	1788.0	1790.8
22.5°	1747.8	1748.6	1744.3	1750.6	1753.4
25°	1706.0	1706.5	1703.2	1706.5	1705.3
27.5°	1657.2	1658.4	1653.6	1657.2	1657.9
30°	1602.8	1606.3	1599.5	1602.3	1602.8
32.5°	1544.3	1546.3	1541.5	1542.3	1545.8
35°	1483.0	1483.8	1481.0	1482.3	1482.3
37.5°	1417.0	1419.8	1415.5	1417.5	1414.7
40°	1351.4	1348.6	1347.1	1348.6	1350.7
42.5°	1282.3	1283.1	1281.0	1279.5	1276.2
45°	1209.9	1214.2	1206.4	1207.9	1207.9
47.5°	1139.0	1139.5	1135.5	1131.2	1128.4
50°	1063.1	1063.1	1058.0	1054.8	1050.5
52.5°	980.1	978.8	973.2	969.7	971.7
55°	893.0	892.3	882.6	879.1	879.8
57.5°	797.6	799.1	784.4	780.9	780.9
60°	706.5	699.4	682.7	677.9	683.9
62.5°	610.8	602.4	584.5	584.5	589.3
65°	524.5	516.9	498.1	493.1	497.4
67.5°	443.7	436.6	419.4	416.6	417.9
70°	367.0	361.0	350.3	344.0	346.3
72.5°	301.0	295.4	288.3	283.5	280.7
75°	240.2	238.9	231.4	229.1	226.3
77.5°	190.1	189.6	183.3	180.5	177.7
80°	142.8	142.0	140.7	136.4	134.4
82.5°	101.8	101.8	101.0	97.5	95.4
85°	59.2	61.3	61.3	57.7	57.7
87.5°	23.8	25.1	23.8	23.8	23.0
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)