

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: P1050700

Luminaire Tested: 24PTR-45-PL1-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050700
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-45-PL1-L830-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

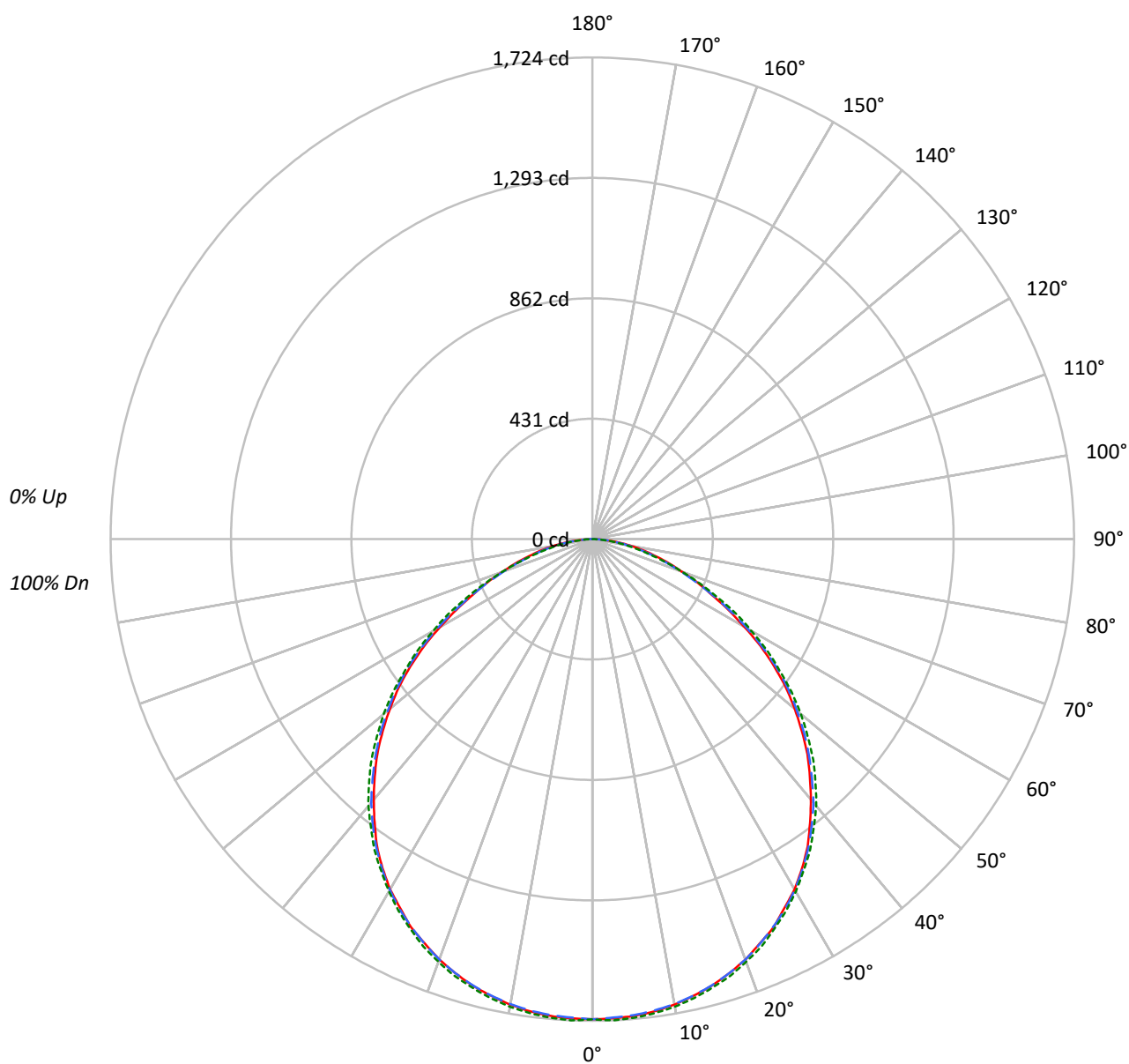
Lumens per Lamp: N/A
Luminaire Lumens: 4529.9 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37
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: P1050700

CATALOG NUMBER: 24PTR-45-PL1-L830-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1050700

CATALOG NUMBER: 24PTR-45-PL1-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	98	95	93	94	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72		
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61		
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	52		
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	46		
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40		
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35		
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32		
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29		
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2312	2312	2312
5°	2314	2310	2323
10°	2311	2309	2322
15°	2304	2303	2315
20°	2293	2293	2306
25°	2277	2274	2286
30°	2248	2252	2262
35°	2206	2214	2232
40°	2137	2162	2189
45°	2070	2088	2128
50°	1979	2000	2040
55°	1864	1894	1916
60°	1691	1727	1770
65°	1502	1518	1579
70°	1342	1315	1348
75°	1211	1142	1119
80°	1101	1022	907
85°	932	846	729

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2128 cd/sqm

TEST NUMBER: P1050700

CATALOG NUMBER: 24PTR-45-PL1-L830-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.0	3.6
10°-20°	467.5	10.3
20°-30°	707.2	15.6
30°-40°	843.0	18.6
40°-50°	847.7	18.7
50°-60°	719.4	15.9
60°-70°	479.0	10.6
70°-80°	239.2	5.3
80°-90°	64.0	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°	1337.7	29.5
0°-40°	2180.7	48.1
0°-60°	3747.8	82.7
0°-90°	4529.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4529.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1718	1718	1718	1718	1718	
5°	1713	1714	1710	1718	1720	163
15°	1654	1656	1654	1660	1662	467
25°	1534	1534	1532	1539	1540	705
35°	1343	1344	1348	1357	1359	838
45°	1088	1090	1097	1112	1118	837
55°	795	800	807	815	817	708
65°	472	476	477	484	496	473
75°	233	230	220	214	215	250
85°	60	59	55	52	47	70
90°	0	0	0	0	0	

TEST NUMBER: P1050700

CATALOG NUMBER: 24PTR-45-PL1-L830-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1718.5	1718.5	1718.5	1718.5	1718.5
2.5°	1717.1	1718.5	1713.9	1722.2	1724.3
5°	1713.4	1713.9	1710.2	1717.8	1719.7
7.5°	1705.1	1705.8	1701.8	1710.2	1711.3
10°	1691.7	1693.1	1689.8	1697.5	1699.3
12.5°	1674.5	1676.4	1673.2	1681.5	1682.9
15°	1654.2	1656.0	1653.5	1660.4	1661.8
17.5°	1629.2	1630.6	1629.2	1635.7	1639.4
20°	1601.2	1601.2	1601.2	1607.0	1610.2
22.5°	1566.3	1569.5	1568.1	1575.8	1579.0
25°	1533.9	1533.9	1531.8	1539.0	1540.1
27.5°	1488.5	1493.6	1493.2	1499.4	1500.8
30°	1447.1	1448.5	1449.2	1453.6	1456.1
32.5°	1396.9	1398.1	1400.2	1406.4	1407.1
35°	1342.8	1344.2	1347.9	1357.4	1358.7
37.5°	1279.9	1286.8	1290.0	1300.2	1301.4
40°	1216.7	1221.1	1230.8	1241.5	1246.5
42.5°	1152.4	1157.5	1163.3	1177.8	1182.5
45°	1088.1	1089.9	1097.1	1111.7	1118.1
47.5°	1016.8	1022.6	1028.8	1041.6	1045.5
50°	945.5	951.8	955.7	967.1	974.7
52.5°	873.6	879.4	883.8	890.7	898.4
55°	794.7	800.3	807.4	815.1	816.9
57.5°	714.4	720.7	725.3	733.4	741.7
60°	628.4	635.5	641.8	649.4	657.7
62.5°	548.3	551.3	557.8	570.5	582.6
65°	471.7	475.7	476.8	484.0	496.0
67.5°	408.1	408.1	402.3	404.9	418.3
70°	341.2	338.7	334.3	331.8	342.6
72.5°	287.1	283.9	274.4	270.0	275.8
75°	233.0	229.7	219.6	214.5	215.2
77.5°	187.2	182.1	173.7	165.0	163.1
80°	142.1	140.0	131.9	123.5	117.1
82.5°	100.6	96.2	91.6	86.5	81.4
85°	60.4	59.2	54.8	51.6	47.2
87.5°	24.8	24.8	23.6	22.2	21.1
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)