

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: P1046679

Luminaire Tested: 22PTR-45-L830-UNV-STD-W

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1046679
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2310-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22PTR-45-L830-UNV-STD-W
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

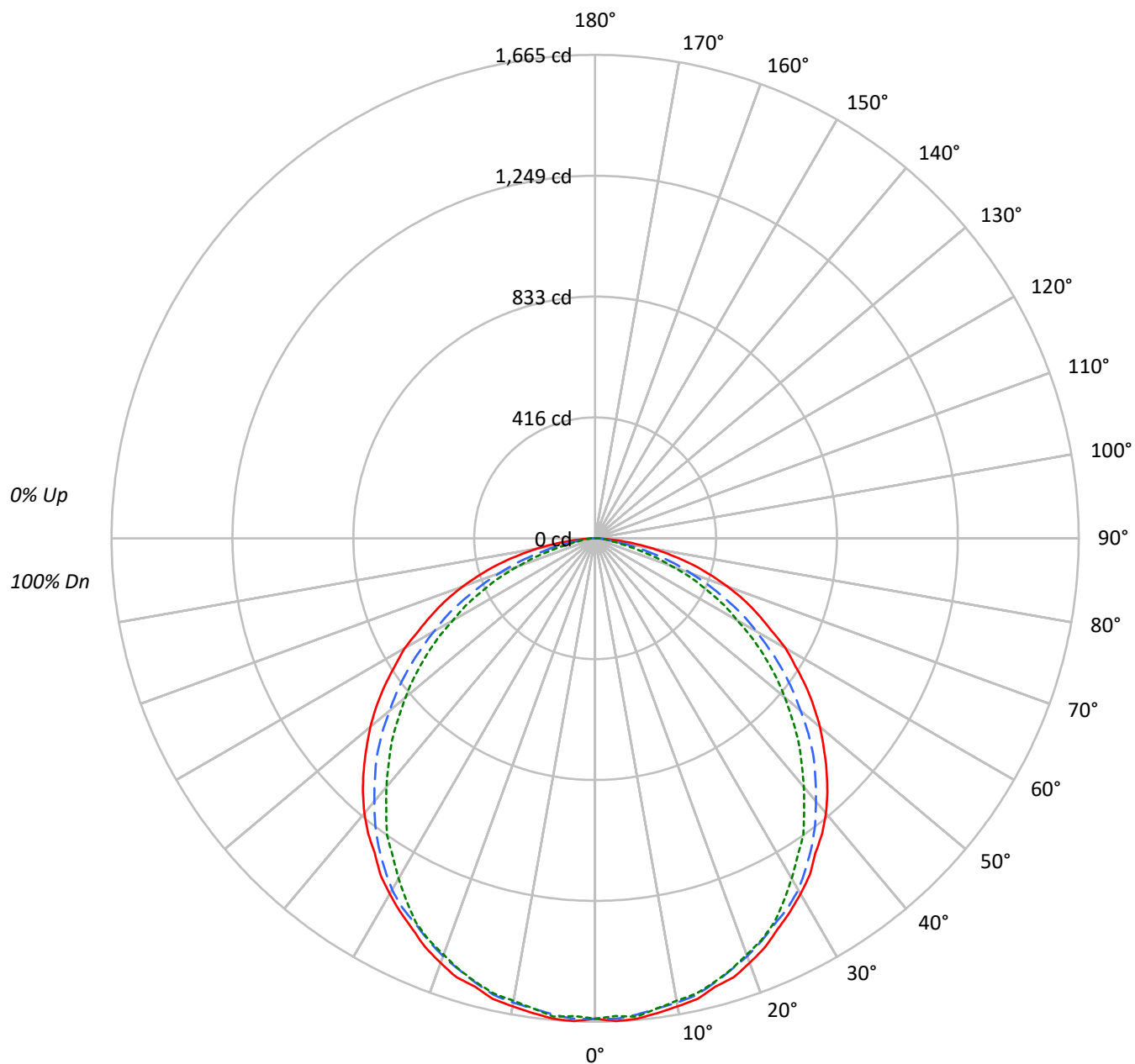
Lumens per Lamp: N/A
Luminaire Lumens: 4407.8 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35
Luminous Opening: (L: 2' x W: 0' x H: 2'
CIE Type: Direct

Input Watts (W): 35
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: P1046679

CATALOG NUMBER: 22PTR-45-L830-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1046679

CATALOG NUMBER: 22PTR-45-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	95	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52		
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40		
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35		
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31		
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	Luminous shape not found, reference photometric report, or contact the photometric lab for calculations.		
5°			
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: -
Vertical Angle: -
Luminance: -

TEST NUMBER: P1046679

CATALOG NUMBER: 22PTR-45-L830-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.9	3.6
10°-20°	448.9	10.2
20°-30°	678.0	15.4
30°-40°	806.1	18.3
40°-50°	817.6	18.5
50°-60°	709.9	16.1
60°-70°	504.0	11.4
70°-80°	240.9	5.5
80°-90°	45.7	1.0
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°	1283.7	29.1
0°-40°	2089.8	47.4
0°-60°	3617.3	82.1
0°-90°	4407.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4407.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1655	1655	1655	1655	1655	
5°	1661	1655	1647	1651	1654	158
15°	1599	1602	1586	1584	1583	453
25°	1486	1484	1465	1470	1460	686
35°	1323	1321	1299	1255	1249	831
45°	1126	1117	1063	1007	990	869
55°	884	857	786	739	714	790
65°	618	572	497	444	427	612
75°	344	281	209	166	147	361
85°	67	36	31	30	29	85
90°	0	0	0	0	0	

TEST NUMBER: P1046679

CATALOG NUMBER: 22PTR-45-L830-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1654.8	1654.8	1654.8	1654.8	1654.8
2.5°	1664.6	1658.7	1656.7	1663.6	1646.9
5°	1660.7	1654.8	1646.9	1650.8	1653.8
7.5°	1648.9	1643.9	1633.1	1642.0	1633.1
10°	1637.0	1632.1	1624.2	1627.2	1617.3
12.5°	1625.2	1613.4	1611.4	1613.4	1606.5
15°	1598.6	1602.5	1585.8	1583.8	1582.8
17.5°	1585.8	1575.9	1558.2	1559.2	1557.2
20°	1556.2	1544.4	1531.6	1529.6	1525.7
22.5°	1525.7	1511.9	1500.0	1506.0	1497.1
25°	1486.2	1484.3	1464.6	1470.5	1459.6
27.5°	1451.7	1444.8	1436.0	1423.2	1407.4
30°	1414.3	1407.4	1398.5	1365.0	1353.2
32.5°	1374.9	1367.0	1349.2	1309.8	1297.0
35°	1322.6	1320.7	1299.0	1254.6	1248.7
37.5°	1283.2	1261.5	1243.8	1198.5	1181.7
40°	1235.9	1224.1	1182.7	1139.3	1117.6
42.5°	1183.7	1169.9	1122.6	1076.2	1052.6
45°	1126.5	1116.7	1063.4	1007.3	990.5
47.5°	1067.4	1058.5	995.4	941.2	919.5
50°	1010.2	999.4	923.5	871.2	851.5
52.5°	948.1	930.4	855.5	804.2	785.5
55°	884.1	857.4	785.5	739.2	713.6
57.5°	816.1	791.4	711.6	663.3	642.6
60°	756.9	722.4	640.6	591.3	564.7
62.5°	681.0	651.5	573.6	515.5	502.6
65°	618.0	571.6	496.7	443.5	426.8
67.5°	553.9	499.7	423.8	369.6	360.7
70°	483.9	427.7	349.9	296.7	281.9
72.5°	413.0	357.8	281.9	225.7	216.8
75°	344.0	280.9	208.9	165.6	146.9
77.5°	269.1	211.9	146.9	101.5	89.7
80°	200.1	142.9	84.8	60.1	59.1
82.5°	131.1	82.8	45.3	46.3	44.4
85°	67.0	35.5	30.6	29.6	28.6
87.5°	12.8	13.8	14.8	14.8	14.8
90°	0.0	0.0	0.0	0.0	0.0







— 0°-180° - - 45°-225° - - - 90°-270°





(END OF REPORT)