

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: P1046889

Luminaire Tested: 22PTR-45-PP3-L830-UNV-STD-W

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1046889
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737727)
Test Lab: INNOVATION CENTER
Issue Date: 7/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22PTR-45-PP3-L830-UNV-STD-W
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND PRISM LENS

Light Source:
Ballast/Driver: -

Summary

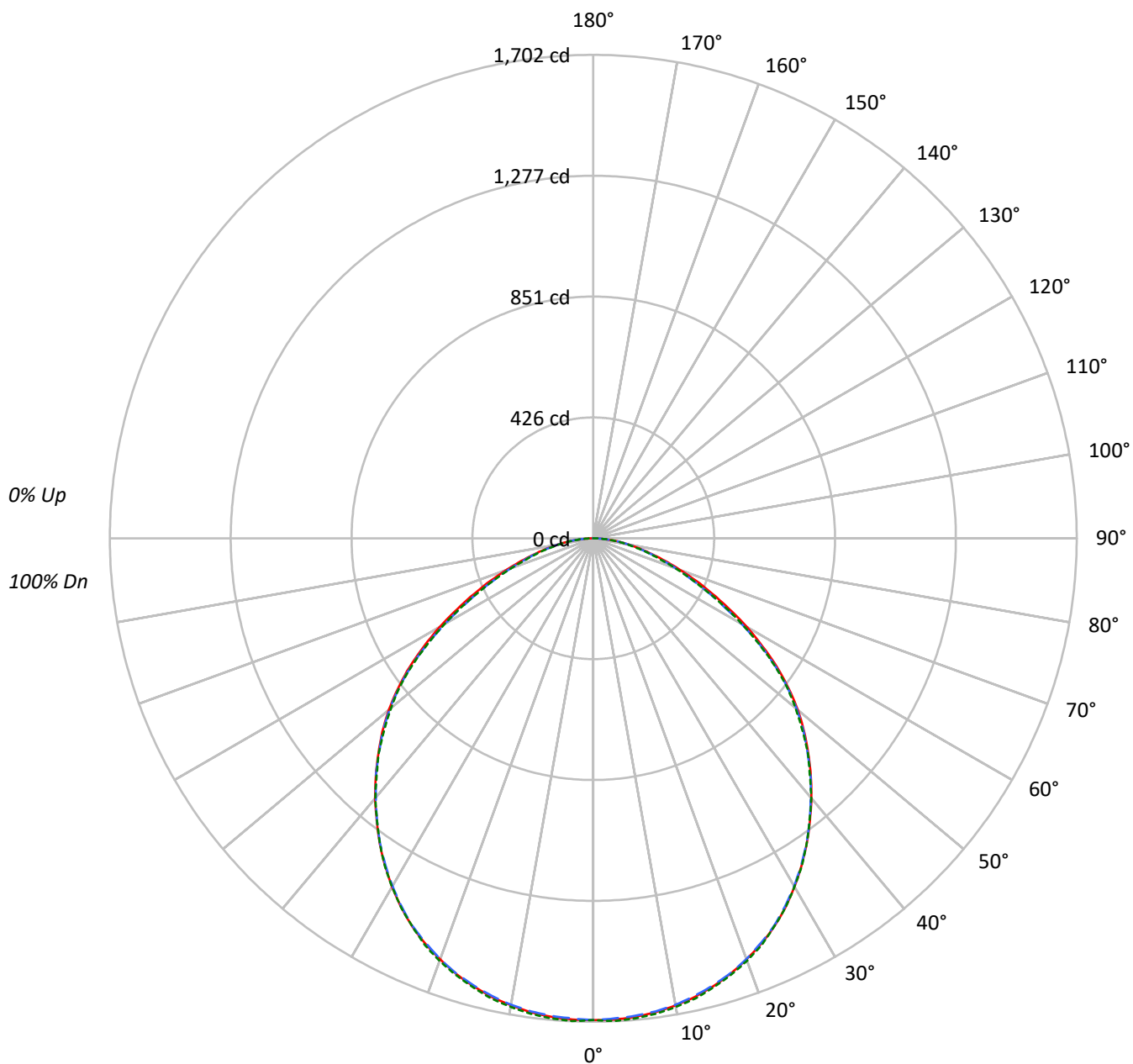
Lumens per Lamp: N/A
Luminaire Lumens: 4383.4 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.34
Luminous Opening: (L: 2 ' x W: 0 ' x H: 2 '
CIE Type: Direct

Input Watts (W): 35
Input Voltage (V): 120
Input Current (A_{in}): 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: P1046889

CATALOG NUMBER: 22PTR-45-PP3-L830-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1046889

CATALOG NUMBER: 22PTR-45-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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	109	105	101	97	107	103	99	96		99	96	93			95	92	90			91
2	100	92	86	80	97	90	84	79		87	82	78			84	79	76			81
3	92	81	74	67	89	80	73	67		77	71	66			74	69	65			72
4	84	73	64	58	82	71	63	57		69	62	56			66	60	56			64
5	77	65	56	50	75	64	56	50		62	55	49			60	54	49			58
6	72	59	50	44	70	58	50	44		56	49	43			54	48	43			53
7	66	53	45	39	65	52	44	39		51	44	38			50	43	38			48
8	62	49	40	35	60	48	40	35		47	39	34			45	39	34			44
9	58	45	37	31	57	44	36	31		43	36	31			42	35	31			41
10	54	41	34	28	53	41	33	28		40	33	28			39	33	28			38

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: P1046889

CATALOG NUMBER: 22PTR-45-PP3-L830-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.9	3.7
10°-20°	460.9	10.5
20°-30°	693.9	15.8
30°-40°	819.0	18.7
40°-50°	823.7	18.8
50°-60°	695.4	15.9
60°-70°	446.6	10.2
70°-80°	222.1	5.1
80°-90°	60.9	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°	1315.7	30.0
0°-40°	2134.8	48.7
0°-60°	3653.9	83.4
0°-90°	4383.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4383.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1696	1696	1696	1696	1696	
5°	1692	1692	1688	1696	1697	161
15°	1632	1633	1629	1637	1637	461
25°	1508	1509	1506	1509	1508	694
35°	1311	1312	1309	1310	1310	819
45°	1070	1073	1066	1068	1068	825
55°	789	789	780	777	778	702
65°	464	457	440	436	440	462
75°	212	211	204	202	200	230
85°	52	54	54	51	51	62
90°	0	0	0	0	0	

TEST NUMBER: P1046889

CATALOG NUMBER: 22PTR-45-PP3-L830-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1696.5	1696.5	1696.5	1696.5	1696.5
2.5°	1695.9	1696.5	1692.1	1700.1	1701.5
5°	1691.6	1692.1	1687.8	1695.9	1697.0
7.5°	1682.9	1683.6	1679.8	1687.1	1688.5
10°	1669.9	1671.9	1667.4	1674.4	1675.5
12.5°	1654.0	1654.7	1650.2	1658.3	1659.6
15°	1632.5	1633.0	1629.4	1636.8	1636.8
17.5°	1607.7	1608.4	1605.9	1612.2	1611.5
20°	1577.7	1579.5	1576.4	1580.6	1583.1
22.5°	1545.1	1545.7	1541.9	1547.5	1550.0
25°	1508.1	1508.6	1505.7	1508.6	1507.5
27.5°	1464.9	1466.1	1461.8	1464.9	1465.6
30°	1416.8	1420.0	1413.9	1416.4	1416.8
32.5°	1365.1	1366.9	1362.7	1363.4	1366.5
35°	1311.0	1311.7	1309.2	1310.3	1310.3
37.5°	1252.6	1255.1	1251.3	1253.0	1250.6
40°	1194.6	1192.2	1190.8	1192.2	1194.0
42.5°	1133.6	1134.2	1132.4	1131.1	1128.2
45°	1069.6	1073.4	1066.4	1067.8	1067.8
47.5°	1006.9	1007.4	1003.8	1000.0	997.5
50°	939.8	939.8	935.3	932.4	928.6
52.5°	866.4	865.3	860.4	857.2	859.0
55°	789.4	788.7	780.2	777.1	777.8
57.5°	705.1	706.4	693.4	690.3	690.3
60°	624.5	618.2	603.5	599.2	604.6
62.5°	539.9	532.5	516.7	516.7	520.9
65°	463.6	456.9	440.4	435.9	439.7
67.5°	392.2	386.0	370.8	368.3	369.4
70°	324.4	319.1	309.7	304.1	306.1
72.5°	266.0	261.1	254.9	250.6	248.1
75°	212.3	211.2	204.5	202.5	200.0
77.5°	168.0	167.6	162.0	159.5	157.1
80°	126.2	125.5	124.4	120.6	118.8
82.5°	90.0	90.0	89.3	86.1	84.4
85°	52.4	54.1	54.1	51.0	51.0
87.5°	21.0	22.2	21.0	21.0	20.4
90°	0.0	0.0	0.0	0.0	0.0





— 0°-180° - - 45°-225° - - - 90°-270°



(END OF REPORT)