

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: P1046973

Luminaire Tested: 22PTR-45-PW1-L830-UNV-STD-W

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1046973
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737743)
Test Lab: INNOVATION CENTER
Issue Date: 7/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22PTR-45-PW1-L830-UNV-STD-W
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND WAVES LENS

Light Source:
Ballast/Driver: -

Summary

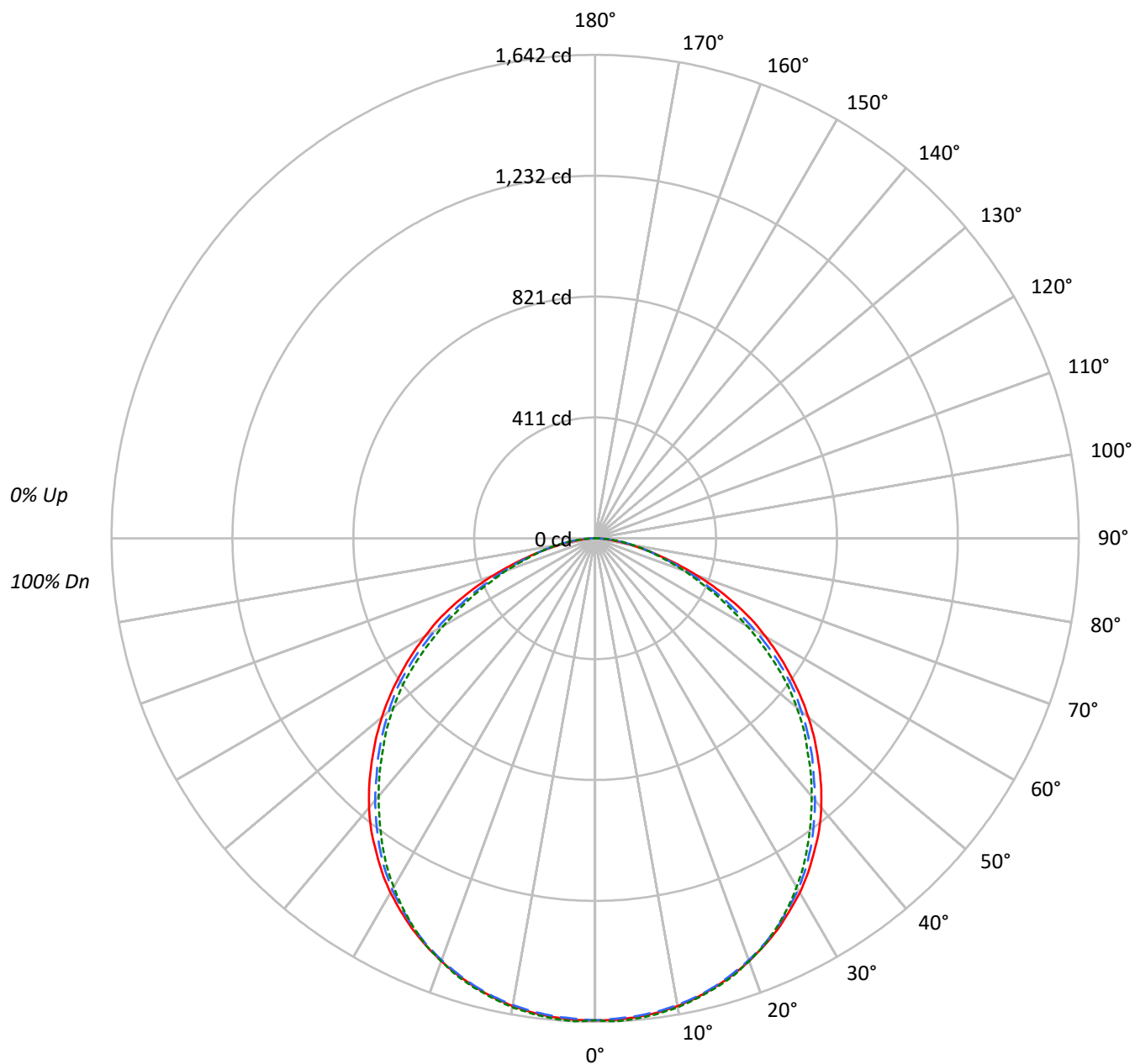
Lumens per Lamp: N/A
Luminaire Lumens: 4345.6 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: (L: 2 ' x W: 0 ' x H: 2 '
CIE Type: Direct

Input Watts (W): 35
Input Voltage (V): 120
Input Current (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	100		
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71		
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	57	68	61	56	66	60	55	64	59	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	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31		
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	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: -

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.3	3.6
10°-20°	445.4	10.2
20°-30°	673.2	15.5
30°-40°	799.3	18.4
40°-50°	805.3	18.5
50°-60°	696.1	16.0
60°-70°	475.7	10.9
70°-80°	234.6	5.4
80°-90°	60.7	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°	1273.9	29.3
0°-40°	2073.2	47.7
0°-60°	3574.6	82.3
0°-90°	4345.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4345.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1638	1638	1638	1638	1638	
5°	1633	1633	1629	1636	1638	155
15°	1578	1579	1575	1581	1581	445
25°	1466	1465	1460	1461	1459	675
35°	1297	1293	1278	1266	1261	812
45°	1072	1060	1040	1028	1019	827
55°	808	806	781	758	750	723
65°	522	504	474	454	451	516
75°	221	220	216	216	211	241
85°	42	49	54	55	54	51
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1637.5	1637.5	1637.5	1637.5	1637.5
2.5°	1637.1	1637.5	1633.3	1640.6	1642.3
5°	1632.6	1633.3	1629.1	1635.7	1637.5
7.5°	1624.9	1626.0	1621.2	1627.8	1629.1
10°	1613.2	1613.9	1609.7	1616.3	1617.7
12.5°	1597.6	1598.0	1594.5	1600.5	1600.5
15°	1577.5	1579.3	1575.1	1580.6	1581.1
17.5°	1555.0	1555.7	1551.5	1557.5	1558.8
20°	1528.4	1528.4	1524.8	1529.7	1528.4
22.5°	1498.6	1498.6	1494.4	1496.8	1497.9
25°	1466.0	1464.6	1459.8	1461.1	1458.7
27.5°	1428.3	1428.3	1419.7	1419.7	1415.5
30°	1390.1	1387.0	1378.0	1372.5	1368.3
32.5°	1346.2	1342.1	1330.6	1320.9	1317.8
35°	1297.3	1292.9	1277.7	1266.2	1261.4
37.5°	1249.9	1240.2	1220.1	1208.7	1203.2
40°	1194.6	1182.4	1161.9	1146.0	1143.6
42.5°	1135.2	1125.5	1098.9	1087.2	1084.3
45°	1072.2	1060.5	1040.4	1028.3	1019.3
47.5°	1010.2	1001.6	978.7	964.2	961.1
50°	945.2	937.9	914.3	898.7	893.2
52.5°	877.9	873.1	853.0	833.0	826.4
55°	808.3	805.8	780.9	757.8	749.8
57.5°	739.7	736.6	705.5	678.9	671.6
60°	668.1	659.0	628.6	603.7	595.7
62.5°	600.1	580.7	547.9	528.5	519.4
65°	522.3	503.6	474.5	453.7	450.9
67.5°	446.0	423.5	401.1	388.3	378.6
70°	366.4	351.2	334.2	323.4	321.7
72.5°	292.4	281.6	273.0	266.3	260.8
75°	221.4	219.6	216.5	216.5	210.6
77.5°	162.7	166.9	169.3	168.7	170.0
80°	112.9	121.3	126.1	126.8	126.1
82.5°	71.7	81.4	89.3	90.4	91.7
85°	41.9	49.2	54.0	55.1	54.0
87.5°	18.7	23.6	24.9	26.0	24.9
90°	0.0	0.0	0.0	0.0	0.0







— 0°-180° - - 45°-225° - - - 90°-270°





(END OF REPORT)