

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: P1046721

Luminaire Tested: 22PTR-45-PB1-L830-UNV-STD-W

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1046721
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737703)
Test Lab: INNOVATION CENTER
Issue Date: 7/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22PTR-45-PB1-L830-UNV-STD-W
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND BEVEL LENS

Light Source:
Ballast/Driver: -

Summary

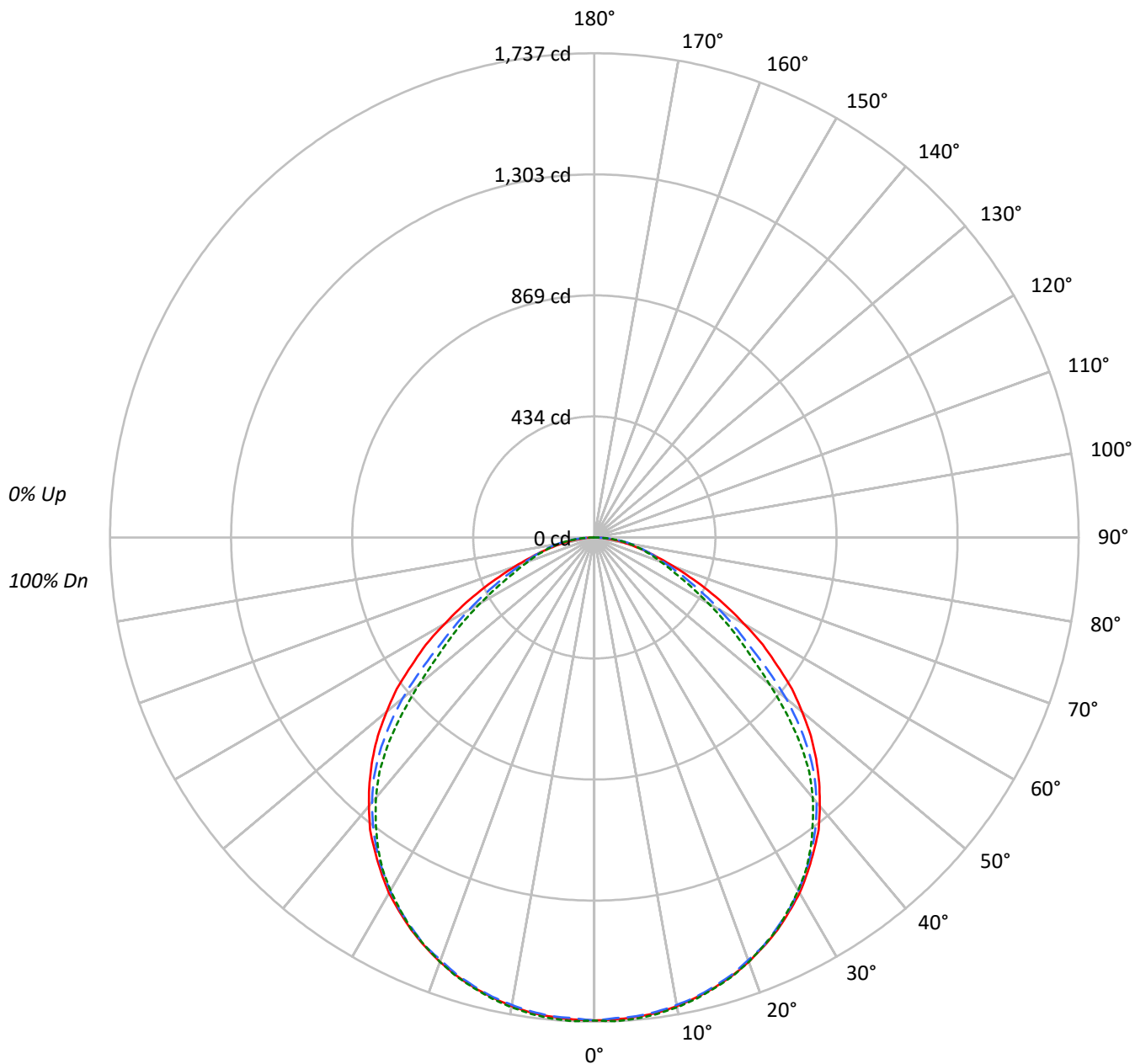
Lumens per Lamp: N/A
Luminaire Lumens: 4321.0 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: (L: 2 ' x W: 0 ' x H: 2 '
CIE Type: Direct

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	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64	62		
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54		
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47		
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42		
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37		
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	33		
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30		
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27		

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°	164.3	3.8
10°-20°	471.5	10.9
20°-30°	714.2	16.5
30°-40°	851.0	19.7
40°-50°	832.2	19.3
50°-60°	629.4	14.6
60°-70°	386.7	8.9
70°-80°	206.0	4.8
80°-90°	65.7	1.5
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°	1350.0	31.2
0°-40°	2200.9	50.9
0°-60°	3662.5	84.8
0°-90°	4321.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4321.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1733	1733	1733	1733	1733	
5°	1726	1729	1724	1731	1733	164
15°	1671	1673	1667	1673	1673	472
25°	1554	1552	1547	1550	1552	716
35°	1373	1371	1362	1356	1354	859
45°	1125	1119	1089	1053	1044	866
55°	799	759	680	642	631	716
65°	450	414	380	350	339	448
75°	192	194	196	190	186	206
85°	43	56	68	64	60	51
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1732.9	1732.9	1732.9	1732.9	1732.9
2.5°	1730.9	1732.9	1726.4	1735.1	1737.1
5°	1726.4	1728.6	1724.4	1730.9	1732.9
7.5°	1720.1	1720.1	1715.9	1722.1	1724.4
10°	1707.4	1707.4	1703.1	1709.4	1711.6
12.5°	1690.4	1690.4	1688.1	1692.4	1694.6
15°	1671.1	1673.1	1666.9	1673.1	1673.1
17.5°	1647.6	1645.6	1643.4	1647.6	1649.9
20°	1619.9	1619.9	1613.6	1617.9	1619.9
22.5°	1587.9	1587.9	1585.9	1587.9	1585.9
25°	1553.9	1551.6	1547.4	1549.6	1551.6
27.5°	1513.4	1513.4	1509.1	1509.1	1506.9
30°	1472.9	1470.6	1464.3	1460.1	1462.1
32.5°	1423.8	1421.6	1415.3	1411.1	1413.1
35°	1372.6	1370.6	1362.1	1355.6	1353.6
37.5°	1321.6	1315.1	1304.4	1295.8	1287.3
40°	1257.6	1251.1	1240.6	1221.3	1219.1
42.5°	1193.6	1187.3	1170.1	1146.8	1140.3
45°	1125.3	1119.1	1089.1	1052.8	1044.3
47.5°	1052.8	1042.3	995.3	950.6	933.6
50°	972.1	952.8	897.3	839.8	820.6
52.5°	893.1	859.1	786.5	735.3	716.3
55°	799.3	758.8	680.0	641.5	630.8
57.5°	716.3	660.8	596.8	558.5	550.0
60°	620.3	569.0	518.0	483.8	471.0
62.5°	532.8	488.0	445.5	415.5	400.8
65°	449.8	413.5	379.5	349.5	339.0
67.5°	368.8	349.5	321.8	298.5	292.0
70°	300.5	289.8	270.8	260.0	251.5
72.5°	238.8	243.0	230.3	226.0	219.5
75°	191.8	194.0	196.0	189.8	185.5
77.5°	145.0	155.5	164.0	159.8	155.5
80°	108.8	119.3	134.3	128.0	128.0
82.5°	74.5	87.5	100.2	96.0	93.8
85°	42.7	55.5	68.2	64.0	59.7
87.5°	17.0	27.7	29.8	29.8	27.7
90°	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report







— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)