

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: P1046931

Luminaire Tested: 22PTR-45-PR1-L830-UNV-STD-W

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1046931
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737735)
Test Lab: INNOVATION CENTER
Issue Date: 7/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22PTR-45-PR1-L830-UNV-STD-W
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND RIPPLE LENS

Light Source:
Ballast/Driver: -

Summary

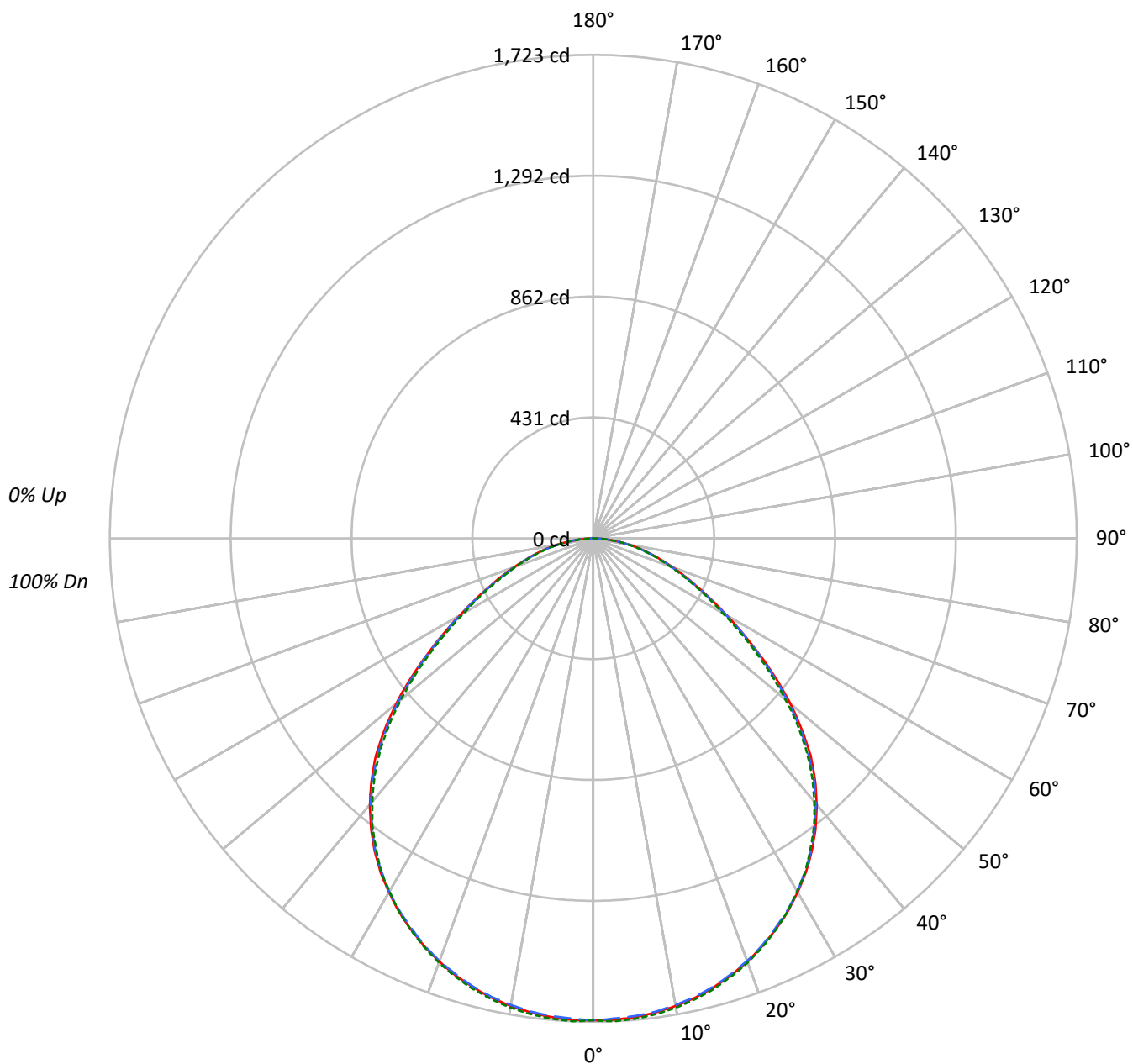
Lumens per Lamp: N/A
Luminaire Lumens: 4345.6 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.34
Luminous Opening: (L: 2 ' x W: 0 ' x H: 2 '
CIE Type: Direct

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	92	90	91	89	88	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62		
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54		
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	47		
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41		
7	67	54	45	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37		
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33		
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30		
10	55	42	34	29	54	41	34	29	40	34	29	39	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°	163.0	3.8
10°-20°	467.8	10.8
20°-30°	708.8	16.3
30°-40°	846.1	19.5
40°-50°	832.1	19.1
50°-60°	643.1	14.8
60°-70°	405.5	9.3
70°-80°	219.4	5.0
80°-90°	59.9	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°	1339.6	30.8
0°-40°	2185.7	50.3
0°-60°	3660.8	84.2
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°	1718	1718	1718	1718	1718	
5°	1713	1714	1710	1717	1719	163
15°	1657	1657	1654	1660	1662	468
25°	1538	1539	1534	1539	1540	709
35°	1359	1359	1356	1354	1350	848
45°	1096	1091	1083	1075	1075	839
55°	724	730	720	709	706	649
65°	408	409	406	399	398	411
75°	210	208	205	206	201	223
85°	51	52	51	51	49	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1718.3	1718.3	1718.3	1718.3	1718.3
2.5°	1717.6	1718.3	1713.4	1721.4	1723.2
5°	1713.4	1714.1	1709.6	1717.0	1719.0
7.5°	1704.7	1706.0	1701.8	1709.1	1710.9
10°	1692.4	1693.7	1689.4	1696.8	1698.6
12.5°	1677.1	1677.6	1674.0	1680.7	1682.5
15°	1656.8	1657.2	1654.3	1659.7	1662.1
17.5°	1633.3	1634.0	1629.7	1636.4	1637.5
20°	1605.1	1605.5	1603.1	1608.7	1609.3
22.5°	1573.5	1574.9	1571.1	1576.0	1576.7
25°	1538.0	1539.1	1534.2	1539.1	1539.7
27.5°	1500.4	1500.8	1496.6	1500.4	1499.7
30°	1456.5	1460.3	1454.7	1453.4	1452.9
32.5°	1411.1	1411.5	1406.2	1404.8	1407.3
35°	1358.7	1359.2	1355.6	1353.8	1350.0
37.5°	1301.4	1301.4	1294.5	1293.4	1292.7
40°	1238.6	1237.9	1233.6	1229.4	1224.9
42.5°	1170.1	1171.4	1162.7	1155.3	1154.2
45°	1095.6	1091.3	1083.3	1074.8	1075.4
47.5°	1007.6	1008.7	997.8	990.8	989.1
50°	916.3	916.3	906.0	898.7	894.8
52.5°	821.0	821.7	811.8	802.0	800.0
55°	723.7	729.7	720.5	708.9	706.4
57.5°	632.6	637.5	628.8	616.5	615.8
60°	548.2	548.7	546.2	534.6	531.4
62.5°	476.2	473.0	471.7	465.7	461.9
65°	408.4	409.0	405.9	399.0	397.9
67.5°	353.6	352.9	347.3	343.0	340.6
70°	299.8	298.1	295.6	292.0	289.6
72.5°	252.0	252.0	249.9	248.8	244.6
75°	210.1	207.7	205.2	206.3	201.4
77.5°	170.1	167.6	165.6	163.1	162.0
80°	128.7	126.2	126.9	123.1	122.6
82.5°	89.3	89.3	88.2	85.0	85.7
85°	51.0	51.7	50.6	51.0	48.6
87.5°	18.6	19.0	20.4	19.0	19.0
90°	0.0	0.0	0.0	0.0	0.0





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)