

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: P1046978

Luminaire Tested: 22PTR-45-PW1-L835-UNV-STD-W

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1046978
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-L835-UNV-STD-W
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND WAVES LENS

Light Source:
Ballast/Driver: -

Summary

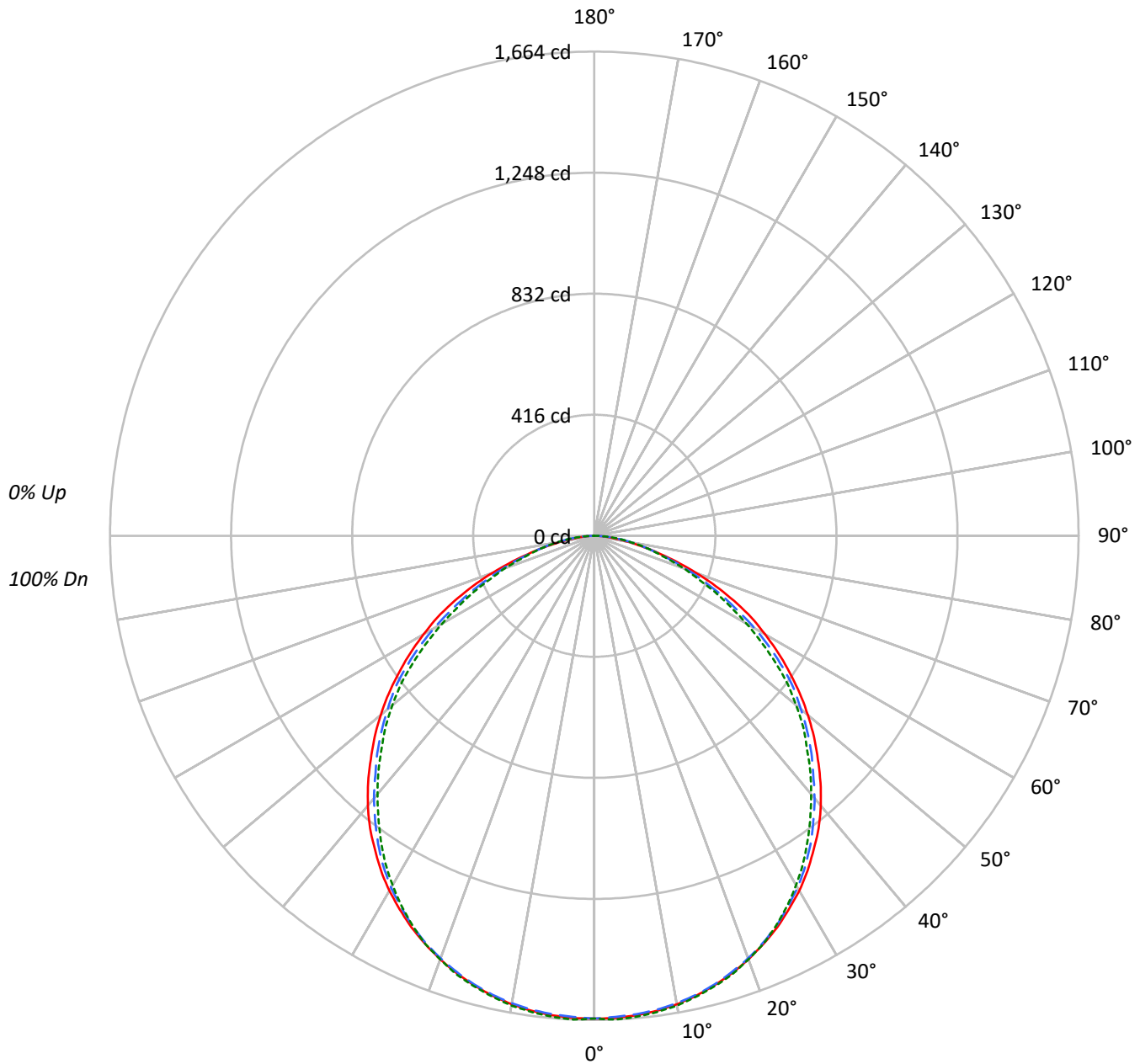
Lumens per Lamp: N/A
Luminaire Lumens: 4403.8 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: (L: 2 ' x W: 0 ' x H: 2 '
CIE Type: Direct

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°	157.4	3.6
10°-20°	451.4	10.2
20°-30°	682.2	15.5
30°-40°	810.0	18.4
40°-50°	816.1	18.5
50°-60°	705.4	16.0
60°-70°	482.1	10.9
70°-80°	237.7	5.4
80°-90°	61.5	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°	1290.9	29.3
0°-40°	2101.0	47.7
0°-60°	3622.5	82.3
0°-90°	4403.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4403.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1659	1659	1659	1659	1659	
5°	1654	1655	1651	1658	1659	157
15°	1599	1600	1596	1602	1602	451
25°	1486	1484	1479	1481	1478	684
35°	1315	1310	1295	1283	1278	823
45°	1086	1075	1054	1042	1033	839
55°	819	817	791	768	760	732
65°	529	510	481	460	457	523
75°	224	222	219	219	213	245
85°	42	50	55	56	55	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1659.4	1659.4	1659.4	1659.4	1659.4
2.5°	1659.0	1659.4	1655.2	1662.6	1664.3
5°	1654.5	1655.2	1650.9	1657.6	1659.4
7.5°	1646.7	1647.8	1642.9	1649.6	1650.9
10°	1634.8	1635.5	1631.3	1638.0	1639.3
12.5°	1619.0	1619.4	1615.9	1621.9	1621.9
15°	1598.7	1600.4	1596.2	1601.8	1602.2
17.5°	1575.9	1576.5	1572.3	1578.3	1579.7
20°	1548.8	1548.8	1545.3	1550.2	1548.8
22.5°	1518.7	1518.7	1514.4	1516.9	1518.0
25°	1485.6	1484.3	1479.3	1480.7	1478.2
27.5°	1447.4	1447.4	1438.7	1438.7	1434.4
30°	1408.7	1405.6	1396.4	1390.9	1386.6
32.5°	1364.3	1360.0	1348.4	1338.6	1335.5
35°	1314.7	1310.2	1294.8	1283.2	1278.3
37.5°	1266.6	1256.8	1236.5	1224.9	1219.3
40°	1210.6	1198.3	1177.5	1161.4	1158.9
42.5°	1150.4	1140.6	1113.6	1101.7	1098.8
45°	1086.5	1074.7	1054.4	1042.1	1032.9
47.5°	1023.8	1015.0	991.8	977.1	973.9
50°	957.9	950.5	926.6	910.7	905.1
52.5°	889.7	884.8	864.5	844.1	837.4
55°	819.1	816.6	791.4	767.9	759.9
57.5°	749.6	746.5	715.0	687.9	680.6
60°	677.0	667.8	637.0	611.8	603.7
62.5°	608.2	588.5	555.2	535.6	526.4
65°	529.3	510.3	480.8	459.8	456.9
67.5°	452.0	429.2	406.4	393.5	383.6
70°	371.3	355.9	338.7	327.8	326.0
72.5°	296.3	285.3	276.6	269.9	264.3
75°	224.3	222.5	219.4	219.4	213.4
77.5°	164.9	169.1	171.6	170.9	172.3
80°	114.4	122.9	127.8	128.5	127.8
82.5°	72.6	82.4	90.5	91.6	92.9
85°	42.5	49.8	54.7	55.9	54.7
87.5°	19.0	23.9	25.2	26.4	25.2
90°	0.0	0.0	0.0	0.0	0.0







— 0°-180° - - 45°-225° - - - 90°-270°

(END OF REPORT)