

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: P1046810

Luminaire Tested: 22PTR-45-PL1-L835-UNV-STD-W

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1046810
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737719)
Test Lab: INNOVATION CENTER
Issue Date: 7/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22PTR-45-PL1-L835-UNV-STD-W
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

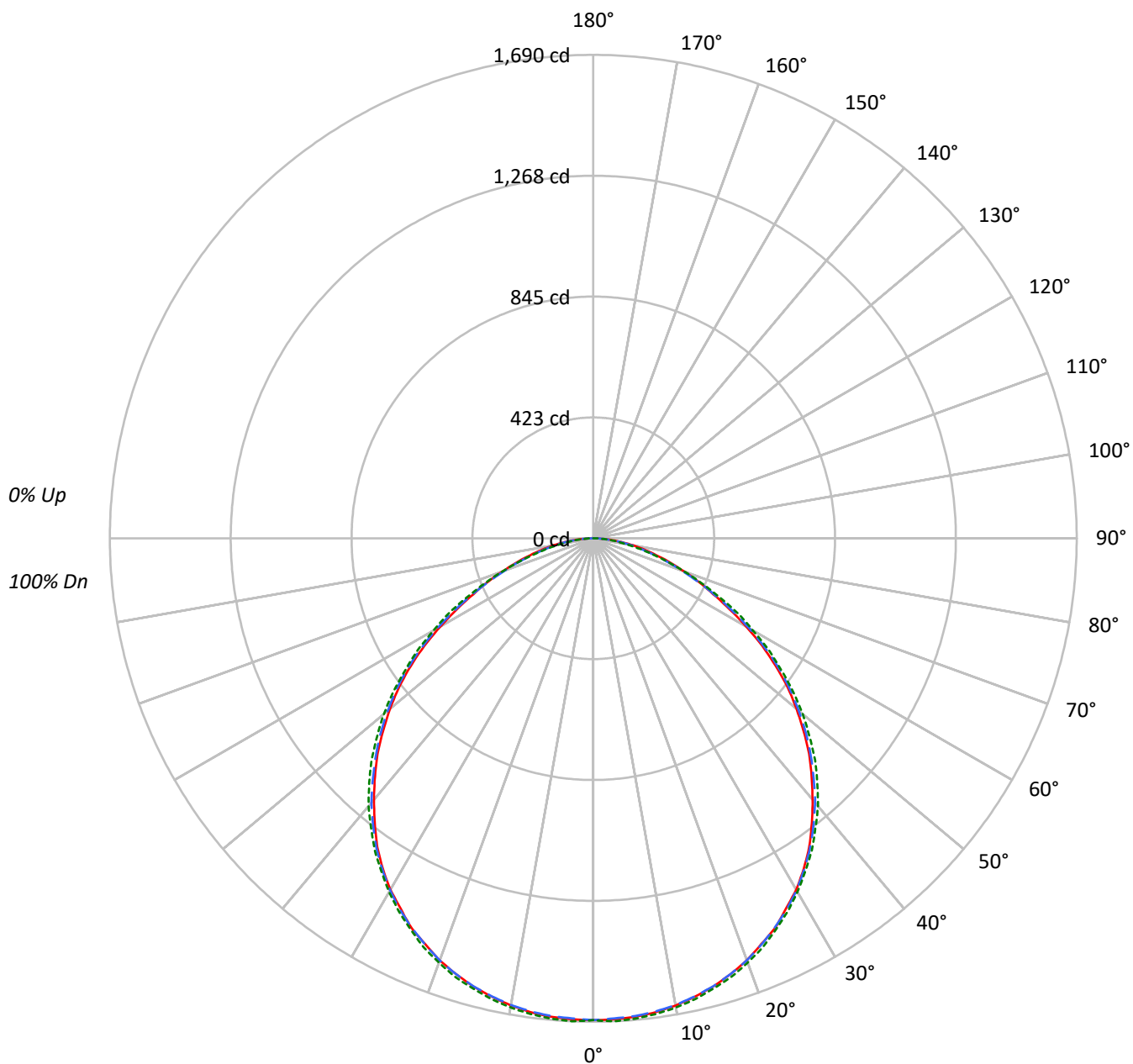
Lumens per Lamp: N/A
Luminaire Lumens: 4440.7 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: (L: 2' x W: 0' x H: 2'
CIE Type: Direct

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

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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	96	98	95	93	94	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72		
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61		
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	52		
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	46		
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40		
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35		
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32		
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29		
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	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°	159.8	3.6
10°-20°	458.3	10.3
20°-30°	693.3	15.6
30°-40°	826.4	18.6
40°-50°	830.9	18.7
50°-60°	705.2	15.9
60°-70°	469.6	10.6
70°-80°	234.5	5.3
80°-90°	62.7	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°	1311.4	29.5
0°-40°	2137.8	48.1
0°-60°	3673.9	82.7
0°-90°	4440.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4440.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1685	1685	1685	1685	1685	
5°	1680	1680	1676	1684	1686	160
15°	1622	1623	1621	1628	1629	458
25°	1504	1504	1502	1509	1510	691
35°	1316	1318	1321	1331	1332	821
45°	1067	1068	1076	1090	1096	821
55°	779	784	792	799	801	694
65°	462	466	467	474	486	464
75°	228	225	215	210	211	245
85°	59	58	54	51	46	69
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1684.6	1684.6	1684.6	1684.6	1684.6
2.5°	1683.3	1684.6	1680.1	1688.3	1690.3
5°	1679.7	1680.1	1676.5	1684.0	1685.8
7.5°	1671.5	1672.2	1668.3	1676.5	1677.6
10°	1658.3	1659.7	1656.5	1664.0	1665.8
12.5°	1641.6	1643.4	1640.2	1648.4	1649.7
15°	1621.6	1623.4	1620.9	1627.7	1629.1
17.5°	1597.1	1598.5	1597.1	1603.5	1607.1
20°	1569.7	1569.7	1569.7	1575.3	1578.5
22.5°	1535.4	1538.6	1537.2	1544.7	1547.9
25°	1503.7	1503.7	1501.6	1508.7	1509.8
27.5°	1459.2	1464.2	1463.7	1469.9	1471.2
30°	1418.6	1420.0	1420.7	1425.0	1427.5
32.5°	1369.4	1370.5	1372.6	1378.7	1379.4
35°	1316.3	1317.7	1321.3	1330.6	1332.0
37.5°	1254.6	1261.4	1264.6	1274.6	1275.7
40°	1192.7	1197.0	1206.6	1217.0	1222.0
42.5°	1129.7	1134.7	1140.3	1154.6	1159.2
45°	1066.6	1068.4	1075.5	1089.8	1096.1
47.5°	996.8	1002.4	1008.6	1021.0	1024.9
50°	926.9	933.0	936.9	948.0	955.5
52.5°	856.4	862.1	866.4	873.2	880.7
55°	779.0	784.5	791.5	799.0	800.8
57.5°	700.3	706.5	711.0	718.9	727.1
60°	616.0	623.0	629.1	636.6	644.8
62.5°	537.5	540.5	546.8	559.3	571.1
65°	462.4	466.3	467.4	474.5	486.3
67.5°	400.1	400.1	394.4	396.9	410.0
70°	334.5	332.0	327.7	325.2	335.9
72.5°	281.5	278.3	269.0	264.7	270.3
75°	228.4	225.2	215.2	210.2	210.9
77.5°	183.5	178.5	170.3	161.7	159.9
80°	139.3	137.2	129.3	121.1	114.8
82.5°	98.7	94.3	89.8	84.8	79.8
85°	59.2	58.1	53.8	50.6	46.3
87.5°	24.3	24.3	23.1	21.8	20.6
90°	0.0	0.0	0.0	0.0	0.0





— 0°-180° - - 45°-225° - - - 90°-270°





(END OF REPORT)