

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: P1046835

Luminaire Tested: 22PTR-45-PL1-L940-UNV-STD-W

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1046835
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-L940-UNV-STD-W
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

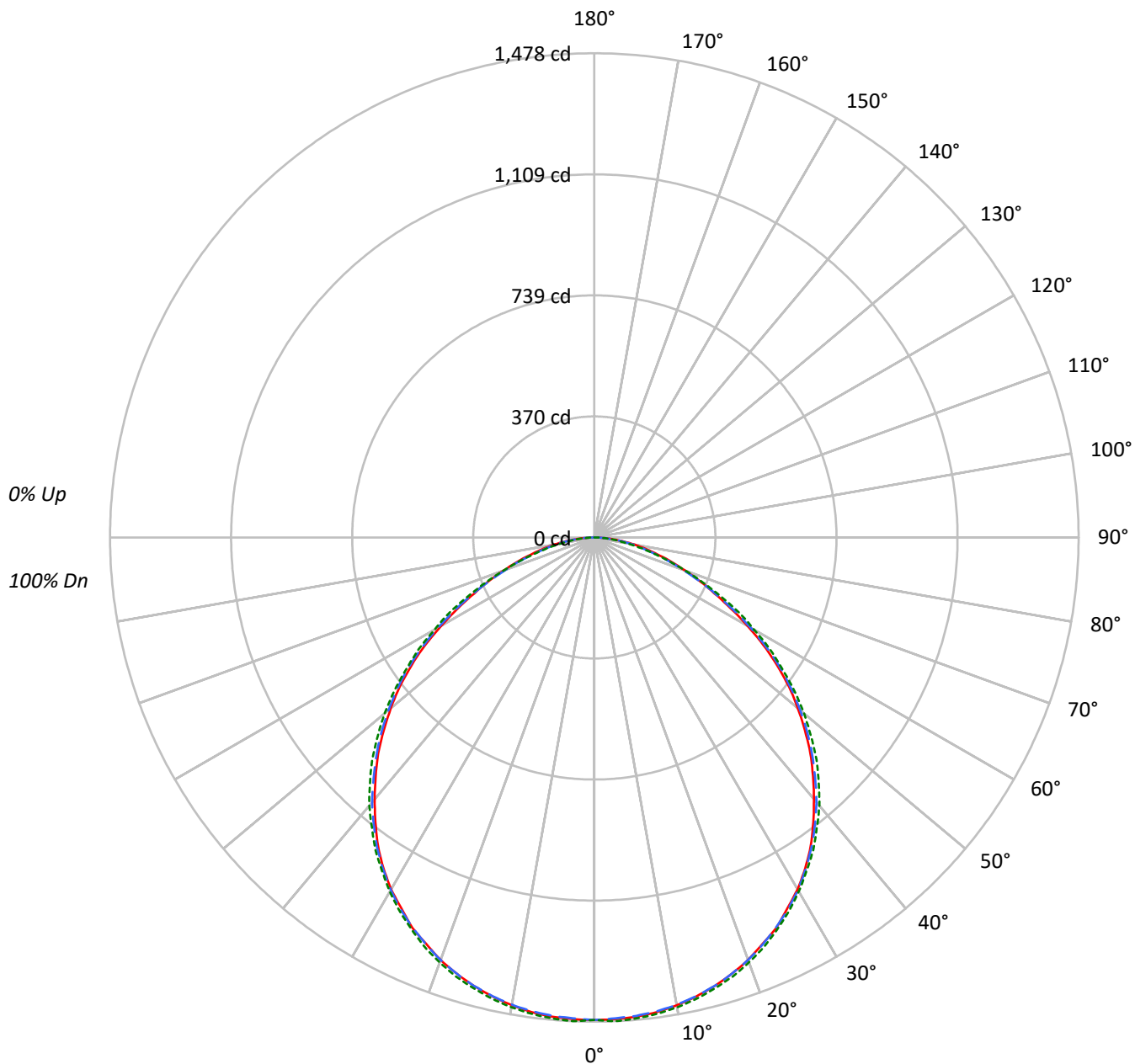
Lumens per Lamp: N/A
Luminaire Lumens: 3882.9 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: (L: 2 ' x W: 0 ' x H: 2 '
CIE Type: Direct

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

TEST NUMBER: P1046835

CATALOG NUMBER: 22PTR-45-PL1-L940-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1046835

CATALOG NUMBER: 22PTR-45-PL1-L940-UNV-STD-W

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: -

TEST NUMBER: P1046835

CATALOG NUMBER: 22PTR-45-PL1-L940-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.7	3.6
10°-20°	400.8	10.3
20°-30°	606.2	15.6
30°-40°	722.6	18.6
40°-50°	726.6	18.7
50°-60°	616.6	15.9
60°-70°	410.6	10.6
70°-80°	205.0	5.3
80°-90°	54.8	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°	1146.7	29.5
0°-40°	1869.3	48.1
0°-60°	3212.5	82.7
0°-90°	3882.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3882.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1473	1473	1473	1473	1473	
5°	1469	1469	1466	1472	1474	140
15°	1418	1420	1417	1423	1424	400
25°	1315	1315	1313	1319	1320	605
35°	1151	1152	1155	1164	1165	718
45°	933	934	940	953	958	718
55°	681	686	692	699	700	607
65°	404	408	409	415	425	405
75°	200	197	188	184	184	214
85°	52	51	47	44	40	60
90°	0	0	0	0	0	

TEST NUMBER: P1046835

CATALOG NUMBER: 22PTR-45-PL1-L940-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1473.1	1473.1	1473.1	1473.1	1473.1
2.5°	1471.9	1473.1	1469.1	1476.2	1478.0
5°	1468.7	1469.1	1465.9	1472.5	1474.0
7.5°	1461.6	1462.1	1458.8	1465.9	1466.9
10°	1450.1	1451.2	1448.5	1455.0	1456.6
12.5°	1435.4	1437.0	1434.2	1441.3	1442.5
15°	1417.9	1419.5	1417.3	1423.3	1424.5
17.5°	1396.5	1397.7	1396.5	1402.1	1405.2
20°	1372.5	1372.5	1372.5	1377.5	1380.2
22.5°	1342.6	1345.3	1344.2	1350.7	1353.5
25°	1314.8	1314.8	1313.0	1319.2	1320.2
27.5°	1275.9	1280.3	1279.9	1285.3	1286.4
30°	1240.4	1241.6	1242.2	1246.0	1248.2
32.5°	1197.4	1198.4	1200.2	1205.5	1206.1
35°	1151.0	1152.2	1155.4	1163.5	1164.7
37.5°	1097.1	1103.0	1105.8	1114.5	1115.5
40°	1042.9	1046.7	1055.0	1064.1	1068.5
42.5°	987.8	992.2	997.1	1009.6	1013.6
45°	932.7	934.2	940.4	952.9	958.4
47.5°	871.6	876.5	881.9	892.8	896.2
50°	810.5	815.9	819.2	828.9	835.5
52.5°	748.8	753.8	757.5	763.5	770.0
55°	681.2	686.0	692.1	698.7	700.2
57.5°	612.4	617.7	621.7	628.6	635.8
60°	538.6	544.8	550.1	556.7	563.8
62.5°	470.0	472.6	478.1	489.0	499.3
65°	404.4	407.7	408.7	414.9	425.2
67.5°	349.8	349.8	344.9	347.0	358.5
70°	292.5	290.3	286.6	284.4	293.7
72.5°	246.1	243.3	235.2	231.4	236.4
75°	199.7	196.9	188.2	183.8	184.4
77.5°	160.4	156.1	148.9	141.4	139.8
80°	121.8	120.0	113.0	105.9	100.3
82.5°	86.3	82.5	78.5	74.2	69.8
85°	51.8	50.8	47.0	44.2	40.5
87.5°	21.2	21.2	20.2	19.0	18.0
90°	0.0	0.0	0.0	0.0	0.0







— 0°-180° - - 45°-225° - - - 90°-270°





(END OF REPORT)