

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: P1046751

Luminaire Tested: 22PTR-45-PB1-L940-UNV-STD-W

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1046751
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-L940-UNV-STD-W
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND BEVEL LENS

Light Source:
Ballast/Driver: -

Summary

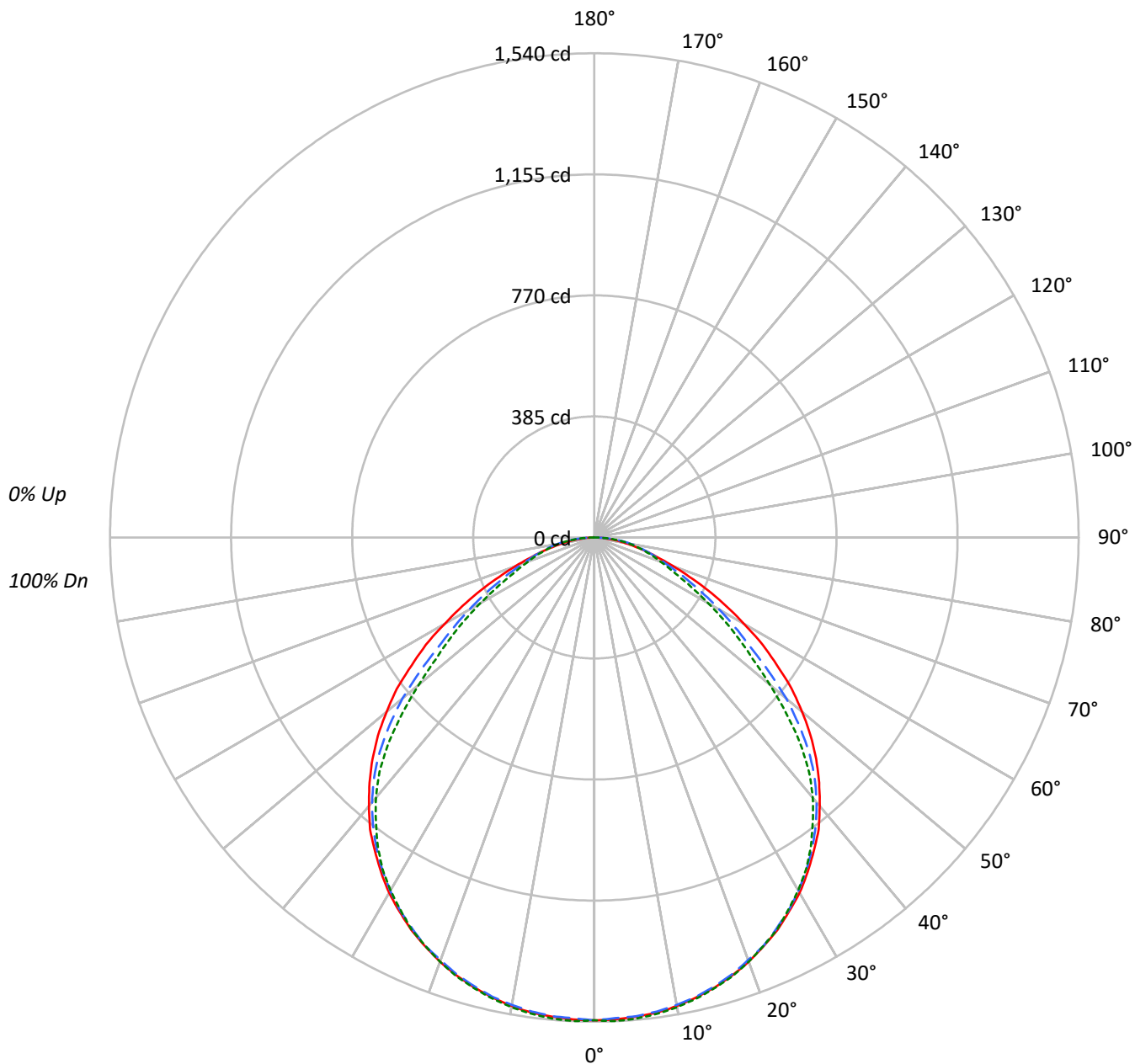
Lumens per Lamp: N/A
Luminaire Lumens: 3830.0 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: (L: 2 ' x W: 0 ' x H: 2 '
CIE Type: Direct

Input Watts (W): 35
Input Voltage (V): 120
Input Current (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	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°	145.6	3.8
10°-20°	417.9	10.9
20°-30°	633.0	16.5
30°-40°	754.3	19.7
40°-50°	737.6	19.3
50°-60°	557.9	14.6
60°-70°	342.8	8.9
70°-80°	182.6	4.8
80°-90°	58.3	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°	1196.5	31.2
0°-40°	1950.8	50.9
0°-60°	3246.4	84.8
0°-90°	3830.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3830.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1536	1536	1536	1536	1536	
5°	1530	1532	1528	1534	1536	146
15°	1481	1483	1478	1483	1483	418
25°	1377	1375	1372	1374	1375	634
35°	1217	1215	1207	1202	1200	761
45°	998	992	965	933	926	767
55°	708	673	603	569	559	634
65°	399	366	336	310	300	397
75°	170	172	174	168	164	182
85°	38	49	60	57	53	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1536.0	1536.0	1536.0	1536.0	1536.0
2.5°	1534.2	1536.0	1530.2	1537.9	1539.7
5°	1530.2	1532.2	1528.4	1534.2	1536.0
7.5°	1524.7	1524.7	1520.9	1526.4	1528.4
10°	1513.4	1513.4	1509.6	1515.1	1517.1
12.5°	1498.3	1498.3	1496.3	1500.1	1502.0
15°	1481.2	1483.0	1477.5	1483.0	1483.0
17.5°	1460.4	1458.6	1456.6	1460.4	1462.4
20°	1435.8	1435.8	1430.2	1434.0	1435.8
22.5°	1407.4	1407.4	1405.7	1407.4	1405.7
25°	1377.3	1375.3	1371.5	1373.5	1375.3
27.5°	1341.4	1341.4	1337.6	1337.6	1335.6
30°	1305.5	1303.5	1298.0	1294.2	1296.0
32.5°	1262.1	1260.1	1254.5	1250.7	1252.5
35°	1216.6	1214.8	1207.3	1201.6	1199.8
37.5°	1171.4	1165.7	1156.1	1148.6	1141.1
40°	1114.7	1108.9	1099.6	1082.6	1080.6
42.5°	1058.0	1052.4	1037.1	1016.5	1010.8
45°	997.5	991.9	965.3	933.2	925.7
47.5°	933.2	923.9	882.2	842.6	827.5
50°	861.6	844.5	795.4	744.4	727.3
52.5°	791.6	761.4	697.2	651.8	634.9
55°	708.5	672.6	602.8	568.6	559.1
57.5°	634.9	585.7	529.0	495.1	487.5
60°	549.8	504.4	459.2	428.8	417.5
62.5°	472.3	432.6	394.9	368.3	355.2
65°	398.7	366.5	336.4	309.8	300.5
67.5°	326.9	309.8	285.2	264.6	258.8
70°	266.4	256.9	240.0	230.5	222.9
72.5°	211.6	215.4	204.1	200.3	194.6
75°	170.0	172.0	173.7	168.2	164.4
77.5°	128.5	137.8	145.4	141.6	137.8
80°	96.4	105.7	119.0	113.5	113.5
82.5°	66.0	77.6	88.9	85.1	83.1
85°	37.9	49.2	60.5	56.7	53.0
87.5°	15.1	24.6	26.4	26.4	24.6
90°	0.0	0.0	0.0	0.0	0.0







— 0°-180° - - 45°-225° - - - 90°-270°





(END OF REPORT)