

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: P1047003

Luminaire Tested: 22PTR-45-PW1-L940-UNV-STD-W

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1047003
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-L940-UNV-STD-W
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND WAVES LENS

Light Source:
Ballast/Driver: -

Summary

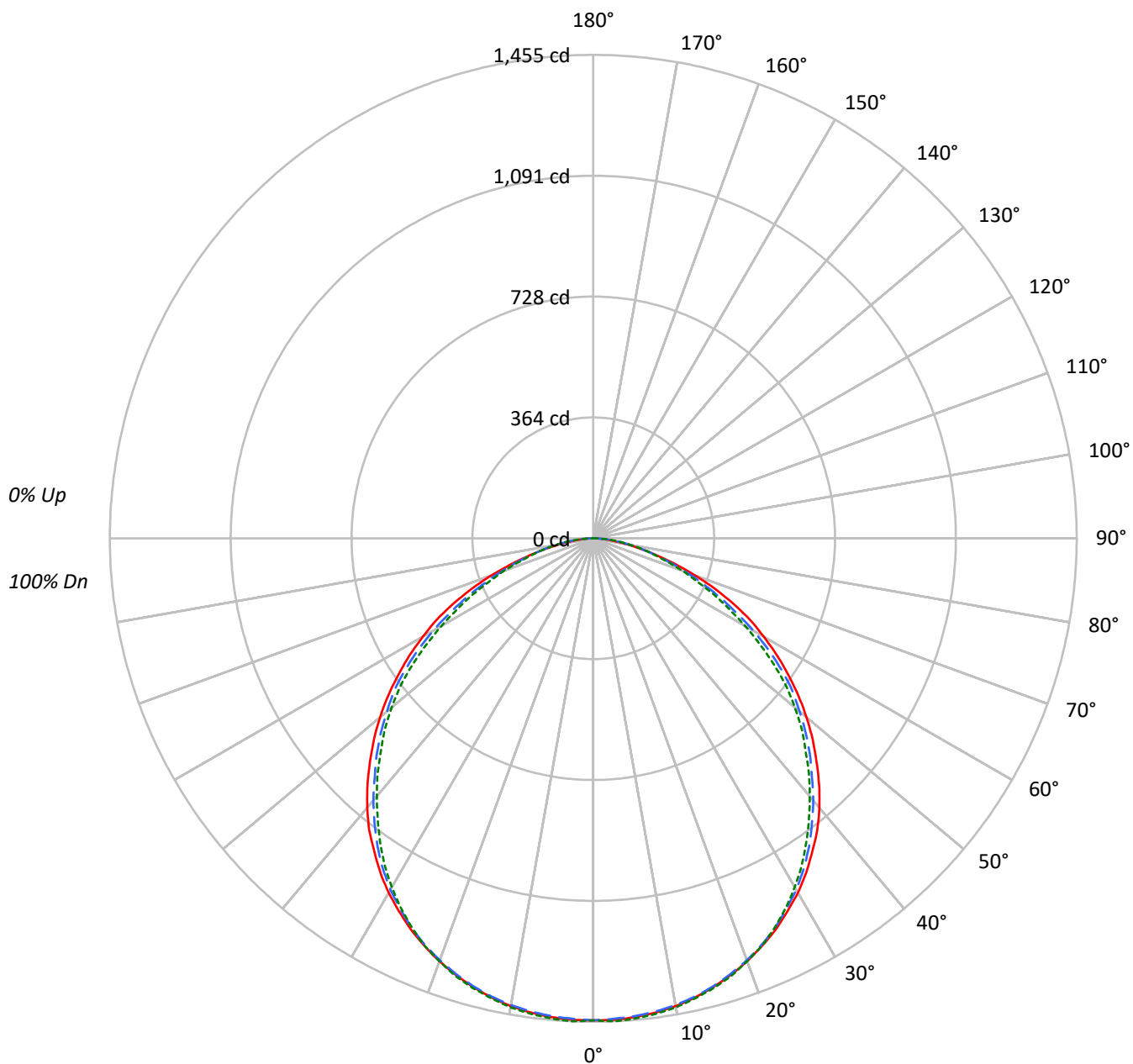
Lumens per Lamp: N/A
Luminaire Lumens: 3850.9 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: (L: 2 ' x W: 0 ' x H: 2 '
CIE Type: Direct

Input Watts (W): 35
Input Voltage (V): 120
Input Current (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	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°	137.6	3.6
10°-20°	394.7	10.2
20°-30°	596.5	15.5
30°-40°	708.3	18.4
40°-50°	713.6	18.5
50°-60°	616.8	16.0
60°-70°	421.6	10.9
70°-80°	207.9	5.4
80°-90°	53.8	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°	1128.9	29.3
0°-40°	1837.2	47.7
0°-60°	3167.7	82.3
0°-90°	3850.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3850.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1451	1451	1451	1451	1451	
5°	1447	1447	1444	1450	1451	138
15°	1398	1400	1396	1401	1401	395
25°	1299	1298	1294	1295	1293	598
35°	1150	1146	1132	1122	1118	720
45°	950	940	922	911	903	733
55°	716	714	692	672	664	640
65°	463	446	420	402	400	457
75°	196	195	192	192	187	214
85°	37	44	48	49	48	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1451.1	1451.1	1451.1	1451.1	1451.1
2.5°	1450.7	1451.1	1447.4	1453.8	1455.4
5°	1446.8	1447.4	1443.7	1449.5	1451.1
7.5°	1439.9	1440.9	1436.6	1442.5	1443.7
10°	1429.6	1430.2	1426.5	1432.3	1433.5
12.5°	1415.7	1416.1	1413.0	1418.3	1418.3
15°	1397.9	1399.5	1395.8	1400.7	1401.1
17.5°	1378.0	1378.6	1374.9	1380.2	1381.3
20°	1354.4	1354.4	1351.2	1355.5	1354.4
22.5°	1328.0	1328.0	1324.3	1326.4	1327.4
25°	1299.1	1297.9	1293.6	1294.8	1292.6
27.5°	1265.7	1265.7	1258.0	1258.0	1254.3
30°	1231.9	1229.1	1221.1	1216.2	1212.5
32.5°	1193.0	1189.3	1179.1	1170.5	1167.8
35°	1149.6	1145.7	1132.2	1122.1	1117.8
37.5°	1107.6	1099.0	1081.2	1071.1	1066.2
40°	1058.6	1047.8	1029.7	1015.6	1013.4
42.5°	1006.0	997.4	973.8	963.4	960.9
45°	950.1	939.8	922.0	911.3	903.2
47.5°	895.2	887.6	867.3	854.4	851.7
50°	837.6	831.1	810.2	796.4	791.5
52.5°	778.0	773.7	755.9	738.1	732.3
55°	716.3	714.1	692.0	671.5	664.5
57.5°	655.5	652.8	625.2	601.6	595.1
60°	592.0	584.0	557.0	534.9	527.9
62.5°	531.8	514.6	485.5	468.3	460.3
65°	462.9	446.2	420.5	402.1	399.6
67.5°	395.3	375.3	355.4	344.1	335.5
70°	324.7	311.2	296.2	286.6	285.1
72.5°	259.1	249.5	241.9	236.0	231.1
75°	196.2	194.6	191.9	191.9	186.6
77.5°	144.2	147.9	150.1	149.5	150.6
80°	100.0	107.5	111.8	112.3	111.8
82.5°	63.5	72.1	79.1	80.1	81.3
85°	37.1	43.6	47.9	48.8	47.9
87.5°	16.6	20.9	22.1	23.1	22.1
90°	0.0	0.0	0.0	0.0	0.0







— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)