

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: P1051074

Luminaire Tested: 24PTR-45-PW1-L940-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1051074
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737743)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-45-PW1-L940-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND WAVES LENS

Light Source:
Ballast/Driver: -

Summary

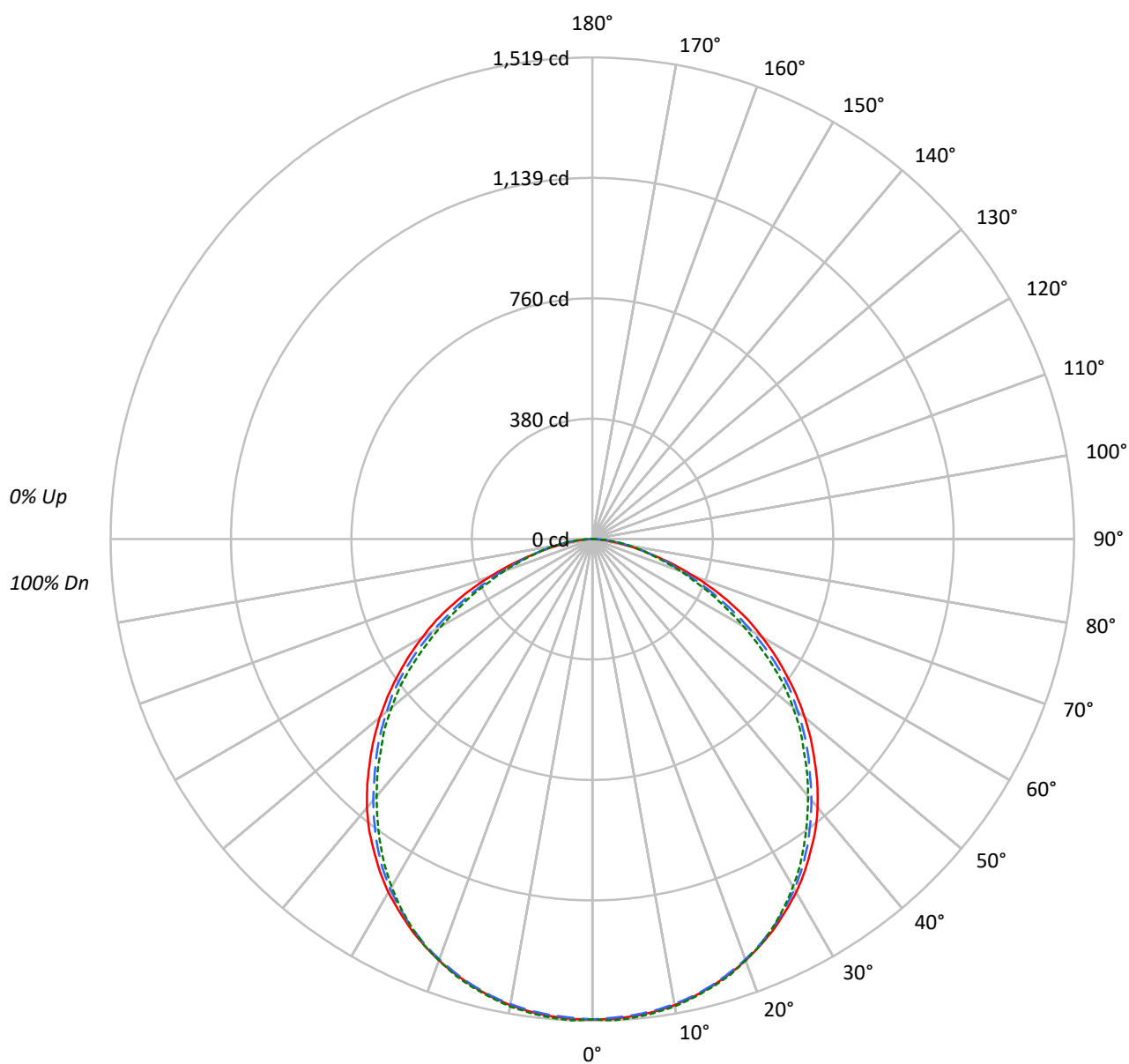
Lumens per Lamp: N/A
Luminaire Lumens: 4019.7 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37
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

TEST NUMBER: P1051074

CATALOG NUMBER: 24PTR-45-PW1-L940-UNV-STD-W

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	102	102	100
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	87	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	74	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	63	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	54	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	42	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	37	37	35
8	62	48	40	34	60	47	40	34	46	39	34	45	38	34	44	38	33	33	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	30	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	27	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2038	2038	2038
5°	2040	2035	2046
10°	2039	2034	2044
15°	2033	2030	2037
20°	2024	2020	2024
25°	2013	2005	2003
30°	1998	1980	1966
35°	1971	1941	1917
40°	1941	1888	1858
45°	1887	1831	1794
50°	1830	1770	1729
55°	1754	1695	1627
60°	1663	1565	1483
65°	1538	1397	1328
70°	1334	1216	1171
75°	1065	1041	1013
80°	809	904	904
85°	597	772	772

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1887 cd/sqm

TEST NUMBER: P1051074

CATALOG NUMBER: 24PTR-45-PW1-L940-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.6	3.6
10°-20°	412.0	10.2
20°-30°	622.7	15.5
30°-40°	739.4	18.4
40°-50°	744.9	18.5
50°-60°	643.9	16.0
60°-70°	440.1	10.9
70°-80°	217.0	5.4
80°-90°	56.1	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°	1178.3	29.3
0°-40°	1917.7	47.7
0°-60°	3306.5	82.3
0°-90°	4019.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4019.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1515	1515	1515	1515	1515	
5°	1510	1511	1507	1513	1515	144
15°	1459	1461	1457	1462	1462	412
25°	1356	1355	1350	1352	1349	625
35°	1200	1196	1182	1171	1167	751
45°	992	981	962	951	943	765
55°	748	745	722	701	694	668
65°	483	466	439	420	417	477
75°	205	203	200	200	195	223
85°	39	46	50	51	50	47
90°	0	0	0	0	0	

TEST NUMBER: P1051074

CATALOG NUMBER: 24PTR-45-PW1-L940-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1514.7	1514.7	1514.7	1514.7	1514.7
2.5°	1514.3	1514.7	1510.8	1517.5	1519.2
5°	1510.2	1510.8	1506.9	1513.1	1514.7
7.5°	1503.1	1504.1	1499.6	1505.7	1506.9
10°	1492.2	1492.9	1489.0	1495.1	1496.3
12.5°	1477.8	1478.2	1474.9	1480.4	1480.4
15°	1459.2	1460.8	1457.0	1462.1	1462.5
17.5°	1438.4	1439.0	1435.1	1440.7	1441.9
20°	1413.7	1413.7	1410.5	1415.0	1413.7
22.5°	1386.2	1386.2	1382.3	1384.6	1385.6
25°	1356.0	1354.8	1350.3	1351.5	1349.3
27.5°	1321.1	1321.1	1313.2	1313.2	1309.3
30°	1285.9	1283.0	1274.6	1269.5	1265.7
32.5°	1245.3	1241.4	1230.8	1221.8	1219.0
35°	1200.0	1195.9	1181.8	1171.2	1166.8
37.5°	1156.2	1147.2	1128.6	1118.0	1112.9
40°	1105.0	1093.7	1074.8	1060.1	1057.9
42.5°	1050.1	1041.1	1016.5	1005.6	1003.0
45°	991.8	981.0	962.4	951.2	942.8
47.5°	934.5	926.5	905.3	891.8	889.0
50°	874.3	867.6	845.8	831.3	826.2
52.5°	812.1	807.6	789.1	770.5	764.4
55°	747.7	745.4	722.4	701.0	693.6
57.5°	684.2	681.4	652.6	627.9	621.2
60°	617.9	609.6	581.4	558.4	551.1
62.5°	555.1	537.2	506.8	488.9	480.5
65°	483.1	465.8	438.9	419.7	417.1
67.5°	412.6	391.8	371.0	359.1	350.2
70°	339.0	324.9	309.2	299.2	297.6
72.5°	270.4	260.4	252.5	246.4	241.3
75°	204.8	203.1	200.3	200.3	194.8
77.5°	150.5	154.4	156.6	156.0	157.2
80°	104.4	112.2	116.7	117.3	116.7
82.5°	66.3	75.3	82.6	83.6	84.8
85°	38.7	45.5	50.0	51.0	50.0
87.5°	17.3	21.8	23.0	24.1	23.0
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)