

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: P1051052

Luminaire Tested: 24PTR-45-PW1-L930-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1051052
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-L930-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 90 CRI LEDS AND WAVES LENS

Light Source:
Ballast/Driver: -

Summary

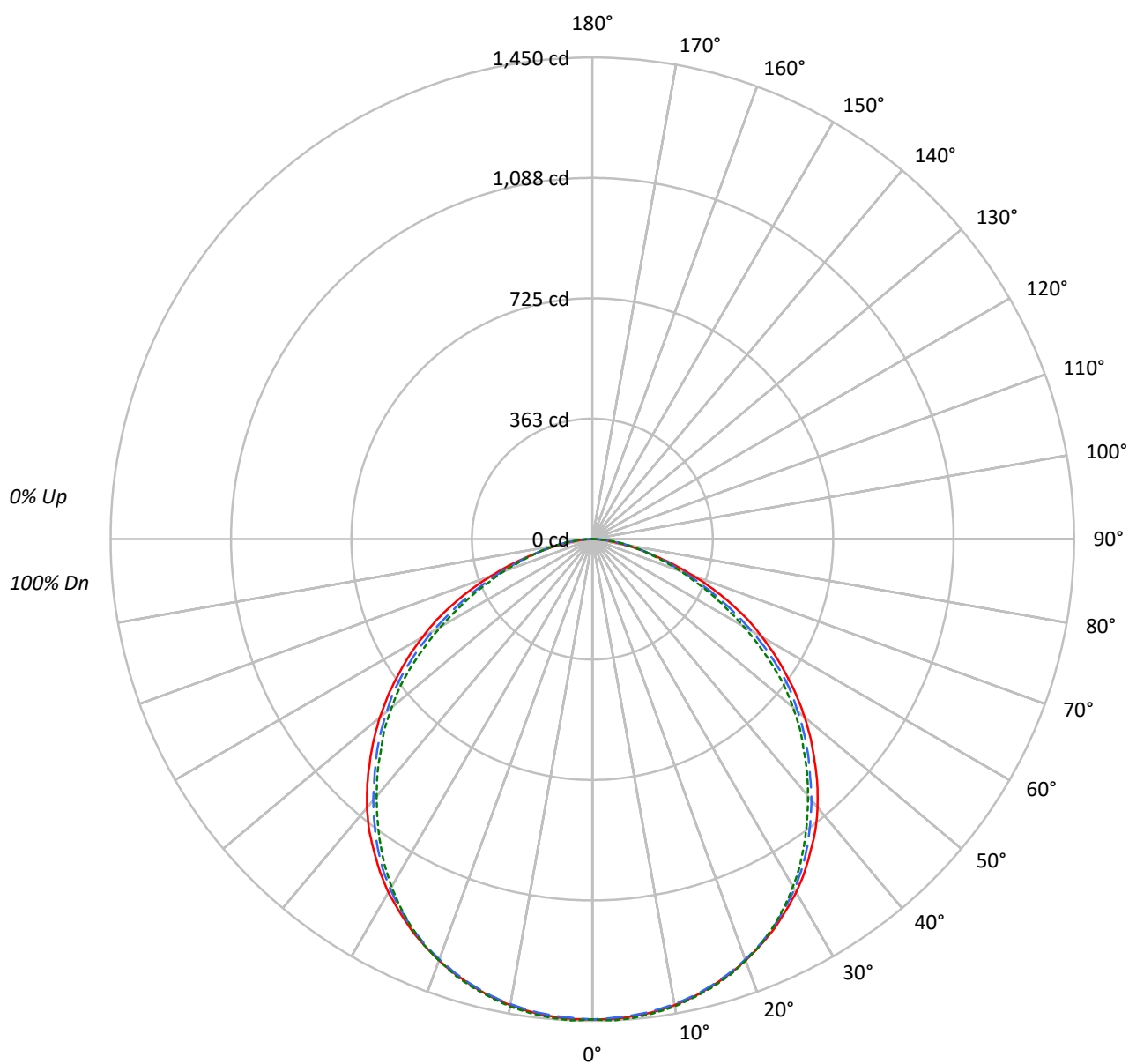
Lumens per Lamp: N/A
Luminaire Lumens: 3837.3 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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: P1051052

CATALOG NUMBER: 24PTR-45-PW1-L930-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1051052

CATALOG NUMBER: 24PTR-45-PW1-L930-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	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	48	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°	1946	1946	1946
5°	1947	1943	1953
10°	1946	1942	1952
15°	1940	1937	1945
20°	1932	1928	1932
25°	1922	1914	1912
30°	1907	1890	1877
35°	1882	1853	1829
40°	1853	1802	1774
45°	1802	1748	1713
50°	1747	1690	1651
55°	1674	1618	1553
60°	1587	1494	1416
65°	1468	1334	1267
70°	1273	1161	1118
75°	1016	994	966
80°	773	863	863
85°	571	736	736

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1802 cd/sqm

TEST NUMBER: P1051052

CATALOG NUMBER: 24PTR-45-PW1-L930-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.1	3.6
10°-20°	393.3	10.2
20°-30°	594.4	15.5
30°-40°	705.8	18.4
40°-50°	711.1	18.5
50°-60°	614.7	16.0
60°-70°	420.1	10.9
70°-80°	207.2	5.4
80°-90°	53.6	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°	1124.9	29.3
0°-40°	1830.7	47.7
0°-60°	3156.5	82.3
0°-90°	3837.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3837.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1446	1446	1446	1446	1446	
5°	1442	1442	1439	1444	1446	137
15°	1393	1395	1391	1396	1396	393
25°	1294	1293	1289	1290	1288	596
35°	1146	1142	1128	1118	1114	717
45°	947	936	919	908	900	731
55°	714	712	690	669	662	638
65°	461	445	419	401	398	455
75°	196	194	191	191	186	213
85°	37	43	48	49	48	45
90°	0	0	0	0	0	

TEST NUMBER: P1051052

CATALOG NUMBER: 24PTR-45-PW1-L930-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1446.0	1446.0	1446.0	1446.0	1446.0
2.5°	1445.6	1446.0	1442.3	1448.7	1450.2
5°	1441.7	1442.3	1438.6	1444.4	1446.0
7.5°	1434.9	1435.8	1431.6	1437.4	1438.6
10°	1424.6	1425.1	1421.4	1427.3	1428.4
12.5°	1410.7	1411.1	1408.0	1413.3	1413.3
15°	1393.0	1394.6	1390.9	1395.7	1396.1
17.5°	1373.2	1373.7	1370.0	1375.3	1376.5
20°	1349.6	1349.6	1346.5	1350.8	1349.6
22.5°	1323.3	1323.3	1319.6	1321.8	1322.7
25°	1294.5	1293.3	1289.0	1290.2	1288.1
27.5°	1261.2	1261.2	1253.6	1253.6	1249.9
30°	1227.5	1224.8	1216.8	1211.9	1208.2
32.5°	1188.8	1185.1	1175.0	1166.4	1163.7
35°	1145.6	1141.7	1128.2	1118.1	1113.8
37.5°	1103.7	1095.1	1077.4	1067.3	1062.4
40°	1054.8	1044.1	1026.0	1012.0	1009.9
42.5°	1002.5	993.9	970.3	960.0	957.5
45°	946.8	936.5	918.7	908.0	900.1
47.5°	892.1	884.5	864.2	851.4	848.7
50°	834.6	828.2	807.4	793.6	788.7
52.5°	775.3	771.0	753.3	735.5	729.7
55°	713.7	711.6	689.6	669.2	662.1
57.5°	653.2	650.5	623.0	599.5	593.0
60°	589.9	581.9	555.1	533.1	526.1
62.5°	529.9	512.8	483.8	466.7	458.7
65°	461.2	444.7	419.0	400.7	398.1
67.5°	393.9	374.0	354.1	342.9	334.3
70°	323.6	310.1	295.2	285.6	284.1
72.5°	258.2	248.6	241.0	235.2	230.3
75°	195.5	193.9	191.2	191.2	185.9
77.5°	143.7	147.4	149.5	148.9	150.1
80°	99.7	107.1	111.4	111.9	111.4
82.5°	63.3	71.8	78.8	79.8	81.0
85°	37.0	43.4	47.7	48.7	47.7
87.5°	16.5	20.8	22.0	23.0	22.0
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)