

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: P1050744

Luminaire Tested: 24PTR-45-PL1-L930-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050744
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737719)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-45-PL1-L930-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 90 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

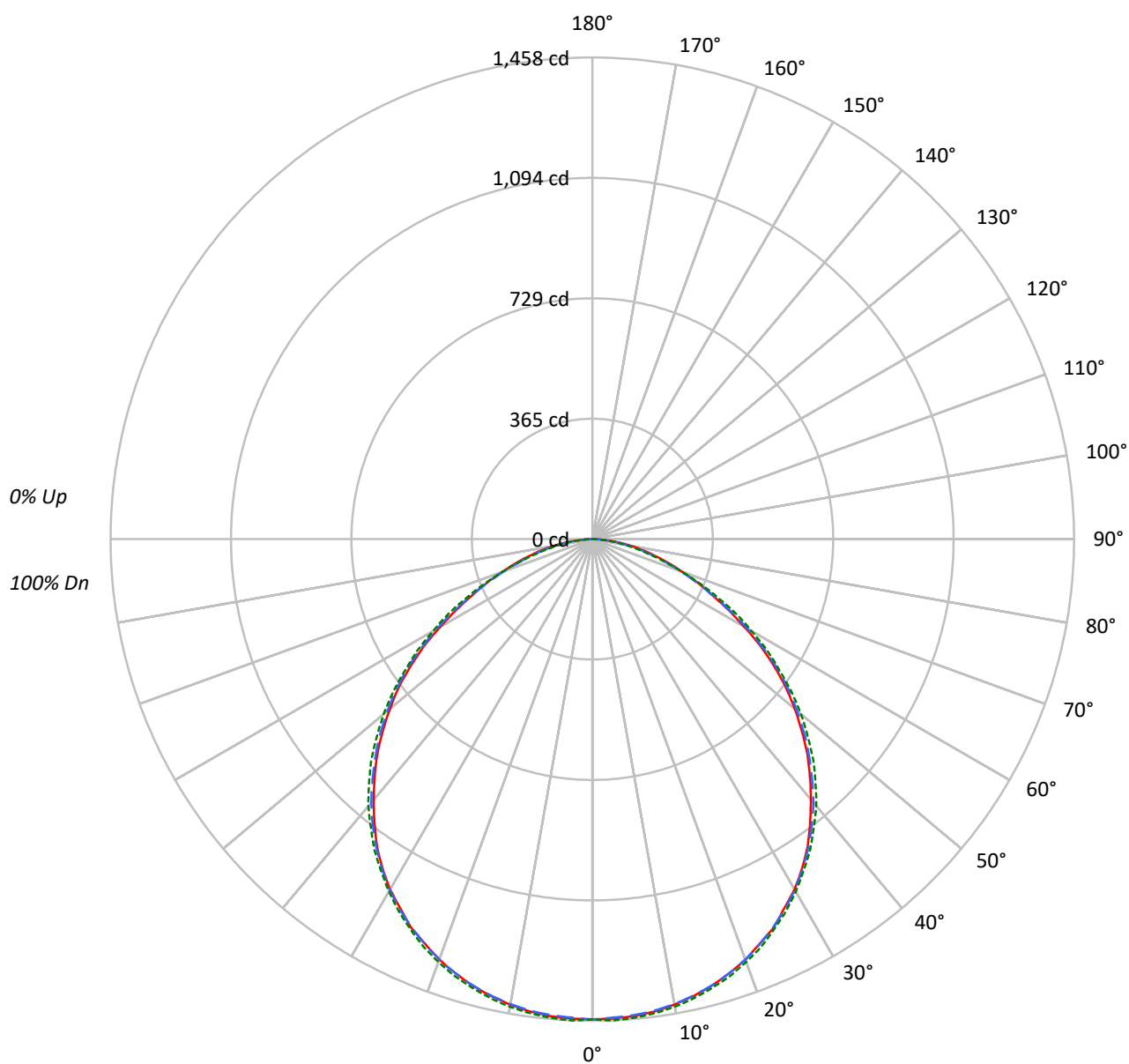
Lumens per Lamp: N/A
Luminaire Lumens: 3831.5 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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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	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°	1956	1956	1956
5°	1957	1954	1964
10°	1955	1953	1964
15°	1949	1948	1958
20°	1939	1939	1950
25°	1926	1923	1934
30°	1902	1904	1913
35°	1866	1873	1888
40°	1808	1828	1852
45°	1751	1766	1799
50°	1674	1692	1726
55°	1577	1602	1621
60°	1430	1461	1497
65°	1270	1284	1336
70°	1135	1113	1140
75°	1025	965	946
80°	931	864	767
85°	789	716	616

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1799 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.9	3.6
10°-20°	395.4	10.3
20°-30°	598.2	15.6
30°-40°	713.0	18.6
40°-50°	717.0	18.7
50°-60°	608.5	15.9
60°-70°	405.1	10.6
70°-80°	202.3	5.3
80°-90°	54.1	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°	1131.5	29.5
0°-40°	1844.5	48.1
0°-60°	3169.9	82.7
0°-90°	3831.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3831.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1454	1454	1454	1454	1454	
5°	1449	1450	1446	1453	1454	138
15°	1399	1401	1399	1404	1406	395
25°	1297	1297	1296	1302	1303	597
35°	1136	1137	1140	1148	1149	708
45°	920	922	928	940	946	708
55°	672	677	683	689	691	599
65°	399	402	403	409	420	400
75°	197	194	186	181	182	212
85°	51	50	46	44	40	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1453.6	1453.6	1453.6	1453.6	1453.6
2.5°	1452.4	1453.6	1449.6	1456.7	1458.4
5°	1449.2	1449.6	1446.5	1453.0	1454.5
7.5°	1442.2	1442.8	1439.5	1446.5	1447.5
10°	1430.9	1432.0	1429.3	1435.7	1437.3
12.5°	1416.4	1417.9	1415.2	1422.2	1423.4
15°	1399.2	1400.7	1398.6	1404.4	1405.6
17.5°	1378.0	1379.2	1378.0	1383.5	1386.6
20°	1354.3	1354.3	1354.3	1359.2	1362.0
22.5°	1324.8	1327.5	1326.4	1332.8	1335.6
25°	1297.4	1297.4	1295.6	1301.7	1302.7
27.5°	1259.0	1263.3	1263.0	1268.2	1269.4
30°	1224.0	1225.2	1225.8	1229.5	1231.6
32.5°	1181.5	1182.5	1184.3	1189.6	1190.2
35°	1135.8	1136.9	1140.1	1148.1	1149.3
37.5°	1082.5	1088.4	1091.1	1099.8	1100.7
40°	1029.1	1032.8	1041.0	1050.0	1054.4
42.5°	974.7	979.0	983.9	996.2	1000.1
45°	920.3	921.9	927.9	940.3	945.7
47.5°	860.0	864.9	870.2	881.0	884.3
50°	799.8	805.1	808.4	818.0	824.4
52.5°	738.9	743.8	747.5	753.4	759.8
55°	672.2	676.9	682.9	689.4	691.0
57.5°	604.3	609.6	613.5	620.3	627.4
60°	531.5	537.5	542.8	549.3	556.3
62.5°	463.8	466.3	471.8	482.6	492.7
65°	399.0	402.3	403.3	409.4	419.6
67.5°	345.2	345.2	340.3	342.4	353.8
70°	288.6	286.5	282.8	280.6	289.8
72.5°	242.8	240.1	232.1	228.4	233.3
75°	197.1	194.3	185.7	181.4	182.0
77.5°	158.3	154.0	147.0	139.5	138.0
80°	120.2	118.4	111.5	104.5	99.0
82.5°	85.1	81.4	77.5	73.2	68.9
85°	51.1	50.1	46.4	43.6	39.9
87.5°	20.9	20.9	20.0	18.8	17.8
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)