

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: P1050590

Luminaire Tested: 24PTR-45-PB1-L930-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050590
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737703)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-45-PB1-L930-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 90 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

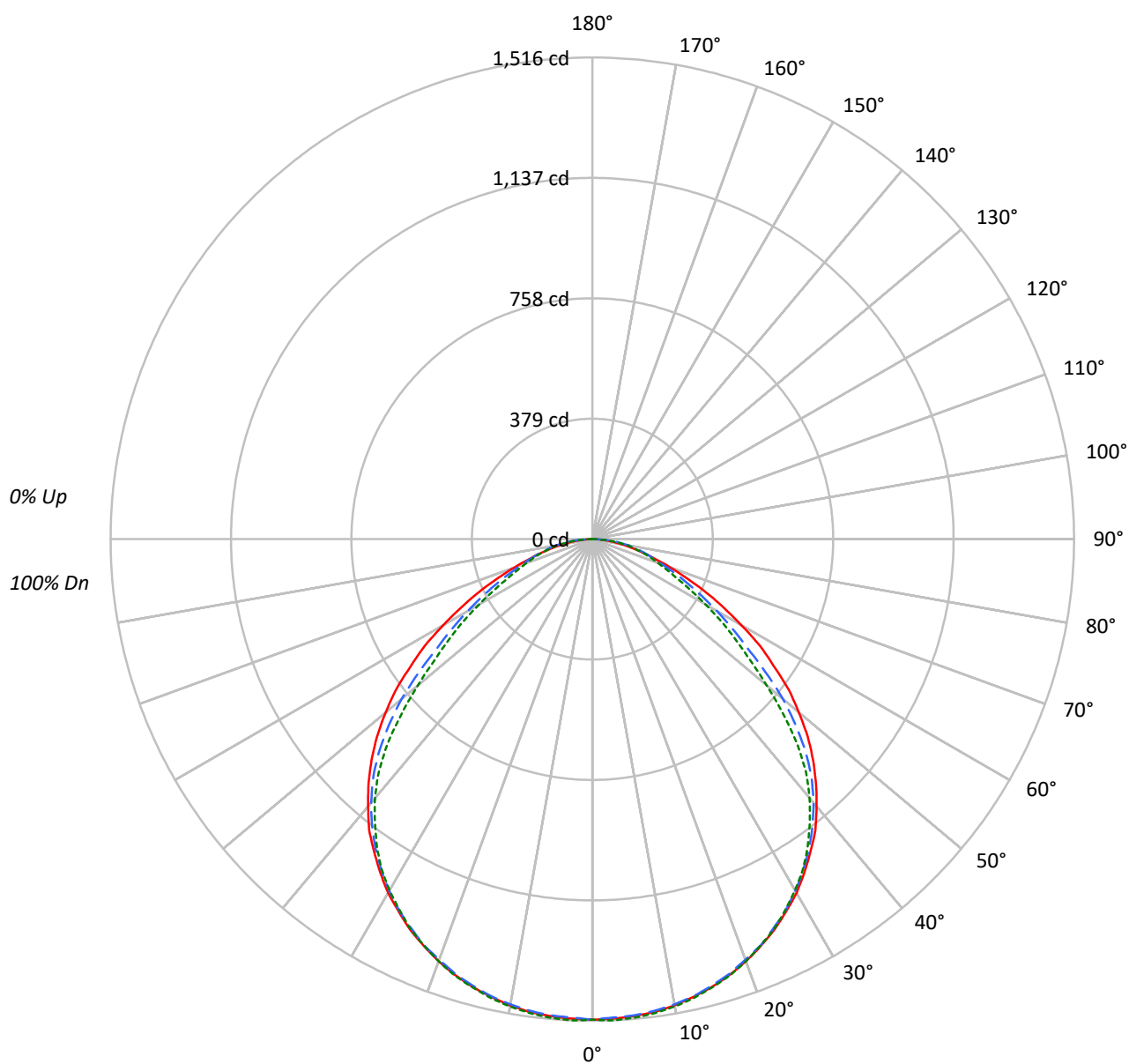
Lumens per Lamp: N/A
Luminaire Lumens: 3771.4 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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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	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	88	88	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	75	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64	64	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	56	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	49	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	44	44	42
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	39	39	37
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	35	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	32	32	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	29	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2035	2035	2035
5°	2035	2033	2043
10°	2036	2031	2041
15°	2032	2026	2034
20°	2024	2016	2024
25°	2013	2005	2010
30°	1997	1986	1983
35°	1968	1953	1940
40°	1928	1902	1869
45°	1869	1809	1734
50°	1776	1639	1499
55°	1636	1392	1292
60°	1457	1217	1106
65°	1250	1054	942
70°	1032	930	864
75°	870	889	842
80°	735	908	865
85°	576	920	804

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1869 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.4	3.8
10°-20°	411.5	10.9
20°-30°	623.3	16.5
30°-40°	742.7	19.7
40°-50°	726.3	19.3
50°-60°	549.4	14.6
60°-70°	337.5	8.9
70°-80°	179.8	4.8
80°-90°	57.4	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°	1178.2	31.2
0°-40°	1920.9	50.9
0°-60°	3196.6	84.8
0°-90°	3771.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3771.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1512	1512	1512	1512	1512	
5°	1507	1509	1505	1511	1512	143
15°	1458	1460	1455	1460	1460	412
25°	1356	1354	1350	1352	1354	625
35°	1198	1196	1189	1183	1181	749
45°	982	977	951	919	912	756
55°	698	662	594	560	551	625
65°	393	361	331	305	296	391
75°	167	169	171	166	162	179
85°	37	48	60	56	52	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1512.4	1512.4	1512.4	1512.4	1512.4
2.5°	1510.7	1512.4	1506.8	1514.4	1516.2
5°	1506.8	1508.7	1505.0	1510.7	1512.4
7.5°	1501.3	1501.3	1497.6	1503.1	1505.0
10°	1490.2	1490.2	1486.5	1491.9	1493.9
12.5°	1475.3	1475.3	1473.4	1477.1	1479.0
15°	1458.5	1460.3	1454.8	1460.3	1460.3
17.5°	1438.0	1436.3	1434.3	1438.0	1440.0
20°	1413.8	1413.8	1408.3	1412.1	1413.8
22.5°	1385.9	1385.9	1384.1	1385.9	1384.1
25°	1356.2	1354.2	1350.5	1352.5	1354.2
27.5°	1320.9	1320.9	1317.1	1317.1	1315.2
30°	1285.5	1283.5	1278.1	1274.4	1276.1
32.5°	1242.7	1240.8	1235.3	1231.6	1233.4
35°	1198.0	1196.2	1188.8	1183.2	1181.4
37.5°	1153.5	1147.8	1138.4	1131.0	1123.6
40°	1097.6	1092.0	1082.8	1066.0	1064.0
42.5°	1041.8	1036.3	1021.3	1000.9	995.3
45°	982.2	976.7	950.6	918.9	911.5
47.5°	918.9	909.7	868.7	829.7	814.8
50°	848.4	831.6	783.2	733.0	716.2
52.5°	779.5	749.8	686.5	641.8	625.2
55°	697.6	662.3	593.5	559.9	550.6
57.5°	625.2	576.7	520.9	487.5	480.1
60°	541.4	496.7	452.1	422.3	411.1
62.5°	465.0	426.0	388.9	362.7	349.8
65°	392.6	360.9	331.2	305.1	295.9
67.5°	321.9	305.1	280.8	260.5	254.9
70°	262.3	252.9	236.3	226.9	219.5
72.5°	208.4	212.1	201.0	197.3	191.6
75°	167.4	169.3	171.1	165.6	161.9
77.5°	126.6	135.7	143.2	139.4	135.7
80°	94.9	104.1	117.2	111.7	111.7
82.5°	65.0	76.4	87.5	83.8	81.8
85°	37.3	48.4	59.6	55.9	52.1
87.5°	14.8	24.2	26.0	26.0	24.2
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)