

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: P1050821

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

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050821
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2409-224-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-45-PLG-L930-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 90 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

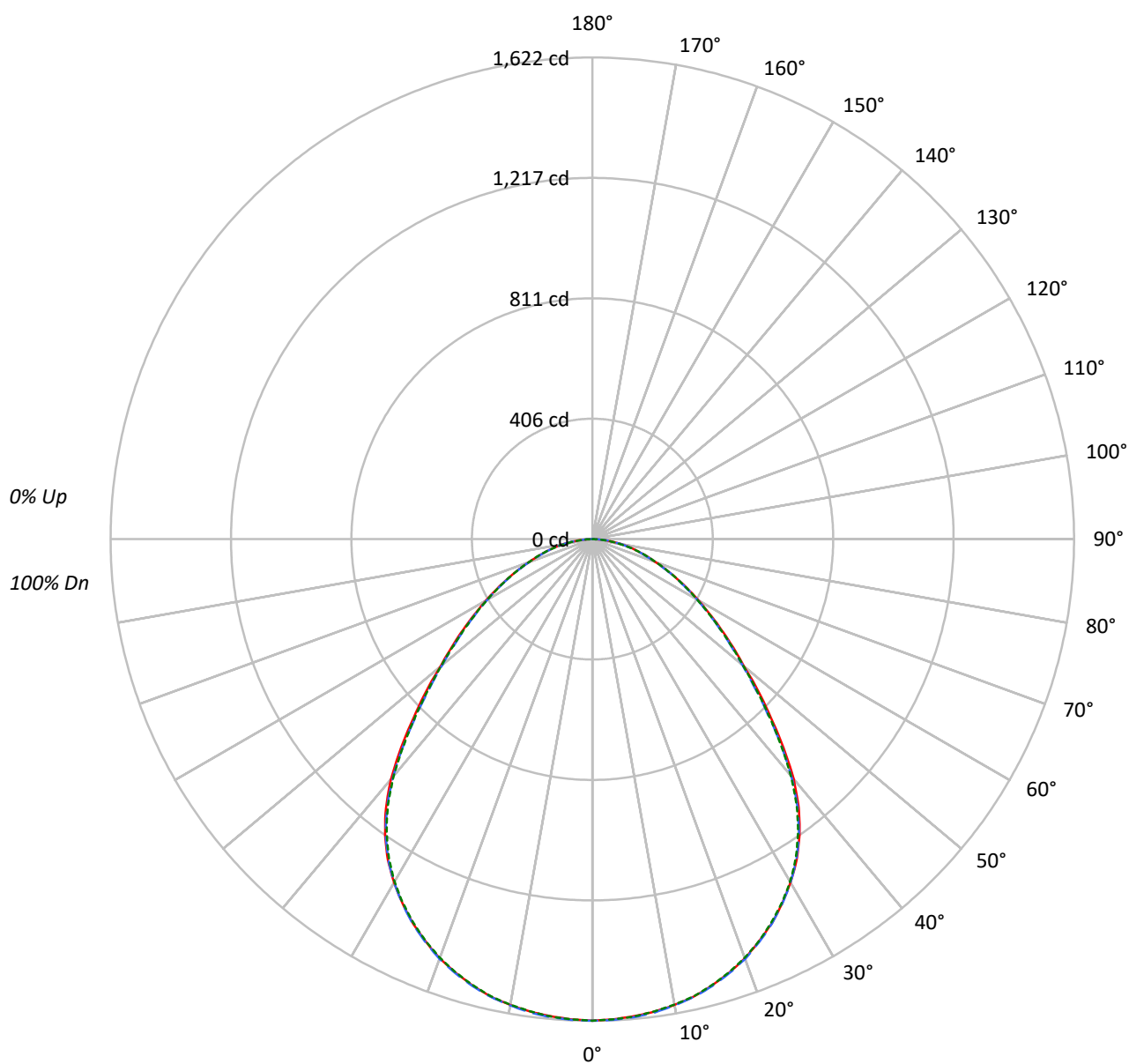
Lumens per Lamp: N/A
Luminaire Lumens: 3654.5 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74		
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	69	66	64		
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56		
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49		
6	74	61	53	47	72	60	52	47	58	51	46	57	51	46	55	50	45	43		
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39		
8	64	51	43	38	62	51	43	38	49	42	37	48	42	37	47	41	37	35		
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32		
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2182	2182	2182
5°	2178	2183	2180
10°	2176	2178	2175
15°	2168	2171	2166
20°	2151	2154	2147
25°	2121	2122	2116
30°	2074	2074	2069
35°	1998	1993	1983
40°	1852	1832	1826
45°	1619	1592	1599
50°	1397	1381	1388
55°	1242	1223	1226
60°	1112	1097	1097
65°	997	989	993
70°	897	887	897
75°	832	820	832
80°	776	767	740
85°	658	658	587

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1619 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.5	4.2
10°-20°	439.4	12.0
20°-30°	657.4	18.0
30°-40°	753.2	20.6
40°-50°	651.4	17.8
50°-60°	471.5	12.9
60°-70°	310.5	8.5
70°-80°	169.0	4.6
80°-90°	48.5	1.3
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°	1250.3	34.2
0°-40°	2003.5	54.8
0°-60°	3126.4	85.6
0°-90°	3654.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3654.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1622	1622	1622	1622	1622	
5°	1613	1616	1616	1616	1614	153
15°	1556	1557	1558	1561	1555	439
25°	1428	1428	1430	1431	1425	657
35°	1217	1216	1213	1212	1207	756
45°	851	848	837	836	840	659
55°	530	527	521	518	523	477
65°	313	315	311	308	312	313
75°	160	160	158	158	160	170
85°	43	43	43	44	38	49
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1621.8	1621.8	1621.8	1621.8	1621.8
2.5°	1618.4	1621.8	1620.7	1621.8	1618.4
5°	1612.6	1616.1	1616.1	1616.1	1613.8
7.5°	1604.6	1606.9	1608.0	1609.2	1603.4
10°	1593.0	1595.4	1594.2	1596.5	1591.9
12.5°	1578.1	1578.1	1579.2	1581.5	1576.9
15°	1556.2	1557.4	1558.5	1560.8	1555.1
17.5°	1530.9	1532.0	1533.2	1534.3	1529.7
20°	1502.1	1502.1	1504.4	1505.6	1499.8
22.5°	1466.4	1466.4	1468.7	1472.2	1465.3
25°	1428.4	1428.4	1429.6	1430.8	1425.0
27.5°	1383.6	1383.6	1384.7	1388.2	1381.3
30°	1335.2	1334.1	1335.2	1336.4	1331.8
32.5°	1281.1	1280.0	1278.8	1280.0	1274.2
35°	1216.7	1215.5	1213.2	1212.1	1207.4
37.5°	1141.8	1139.5	1134.9	1134.9	1130.3
40°	1054.4	1048.6	1042.8	1040.5	1039.4
42.5°	953.1	948.5	940.4	939.3	939.3
45°	850.6	848.3	836.8	835.7	840.3
47.5°	758.5	752.8	742.4	740.1	747.0
50°	667.6	668.8	659.6	656.1	663.0
52.5°	596.2	593.9	585.9	583.6	589.3
55°	529.5	527.2	521.4	518.0	522.6
57.5°	468.5	467.3	461.6	460.4	462.7
60°	413.2	412.1	407.5	406.3	407.5
62.5°	361.4	361.4	356.8	354.5	358.0
65°	313.1	315.4	310.8	308.5	311.9
67.5°	269.3	271.6	267.0	264.7	269.3
70°	227.9	230.2	225.6	223.3	227.9
72.5°	192.2	193.4	189.9	188.8	194.5
75°	160.0	160.0	157.7	157.7	160.0
77.5°	130.1	128.9	127.8	127.8	125.5
80°	100.1	99.0	99.0	99.0	95.5
82.5°	71.4	69.1	70.2	71.4	65.6
85°	42.6	42.6	42.6	43.7	38.0
87.5°	17.3	17.3	16.1	17.3	15.0
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)