

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: P1050711

Luminaire Tested: 24PTR-45-PL1-L835-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050711
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-L835-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

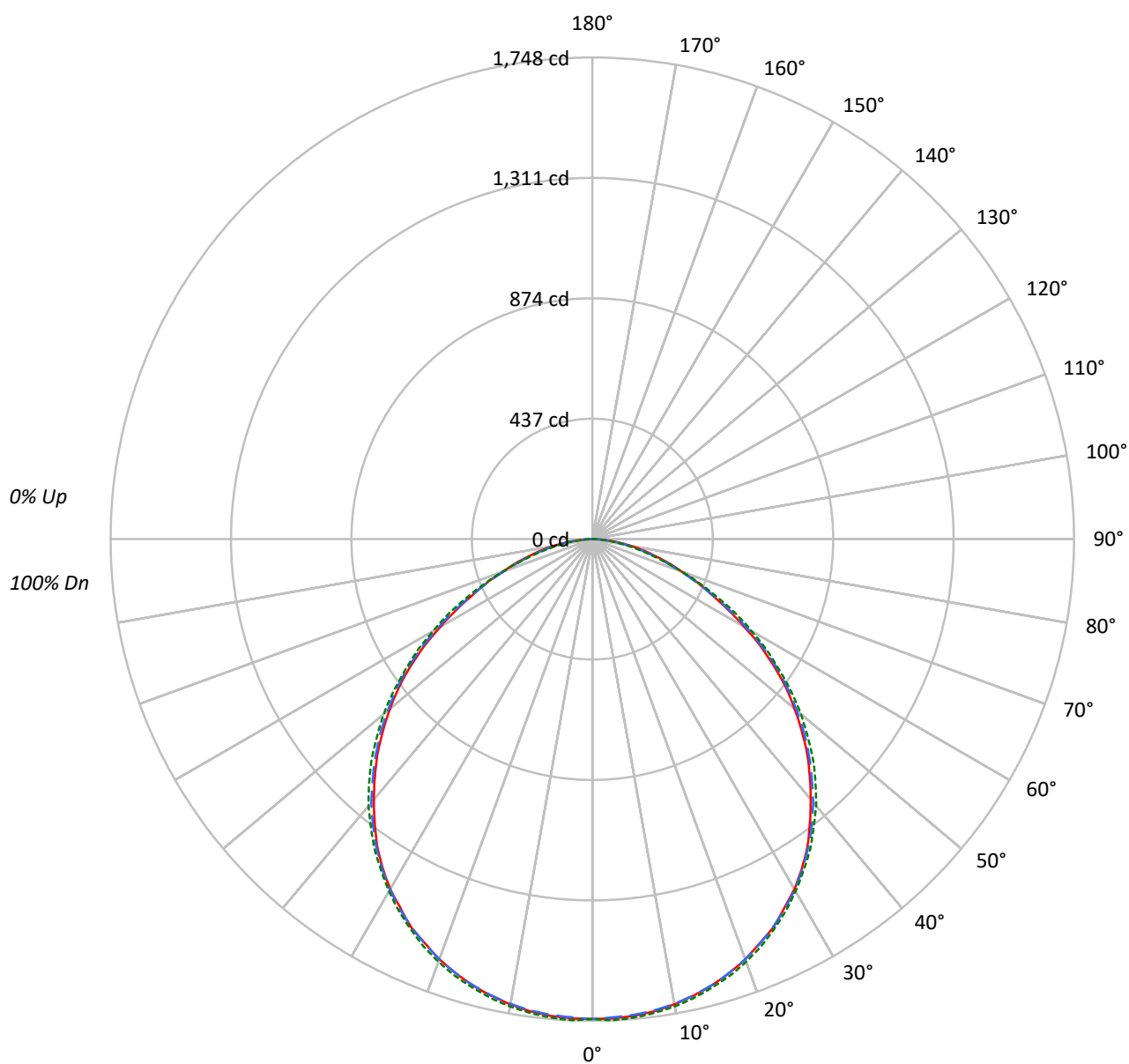
Lumens per Lamp: N/A
Luminaire Lumens: 4591.0 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	87	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	74	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	63	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	55	55	52
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	48	48	46
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	42	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	37	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	34	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	30	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2343	2343	2343
5°	2345	2341	2354
10°	2342	2340	2353
15°	2335	2334	2346
20°	2324	2324	2337
25°	2308	2305	2317
30°	2279	2282	2293
35°	2235	2244	2262
40°	2166	2191	2219
45°	2098	2116	2156
50°	2006	2027	2068
55°	1889	1920	1942
60°	1714	1750	1794
65°	1522	1539	1600
70°	1361	1333	1366
75°	1227	1157	1134
80°	1116	1036	919
85°	945	858	738

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2156 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.2	3.6
10°-20°	473.8	10.3
20°-30°	716.7	15.6
30°-40°	854.3	18.6
40°-50°	859.1	18.7
50°-60°	729.1	15.9
60°-70°	485.5	10.6
70°-80°	242.4	5.3
80°-90°	64.8	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°	1355.8	29.5
0°-40°	2210.1	48.1
0°-60°	3798.3	82.7
0°-90°	4591.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4591.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1742	1742	1742	1742	1742	
5°	1736	1737	1733	1741	1743	165
15°	1676	1678	1676	1683	1684	473
25°	1555	1555	1552	1560	1561	715
35°	1361	1362	1366	1376	1377	849
45°	1103	1105	1112	1127	1133	848
55°	805	811	818	826	828	718
65°	478	482	483	490	503	479
75°	236	233	222	217	218	254
85°	61	60	56	52	48	71
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1741.7	1741.7	1741.7	1741.7	1741.7
2.5°	1740.3	1741.7	1737.0	1745.4	1747.5
5°	1736.5	1737.0	1733.2	1741.0	1742.9
7.5°	1728.1	1728.8	1724.8	1733.2	1734.4
10°	1714.5	1715.9	1712.6	1720.4	1722.2
12.5°	1697.1	1699.0	1695.7	1704.2	1705.6
15°	1676.5	1678.4	1675.8	1682.8	1684.2
17.5°	1651.2	1652.6	1651.2	1657.7	1661.5
20°	1622.8	1622.8	1622.8	1628.7	1632.0
22.5°	1587.4	1590.7	1589.3	1597.0	1600.3
25°	1554.6	1554.6	1552.5	1559.7	1560.9
27.5°	1508.6	1513.8	1513.3	1519.6	1521.0
30°	1466.6	1468.1	1468.8	1473.2	1475.8
32.5°	1415.8	1416.9	1419.0	1425.4	1426.1
35°	1360.9	1362.3	1366.1	1375.7	1377.1
37.5°	1297.1	1304.2	1307.4	1317.8	1318.9
40°	1233.1	1237.6	1247.4	1258.2	1263.4
42.5°	1167.9	1173.1	1178.9	1193.7	1198.4
45°	1102.7	1104.6	1111.9	1126.7	1133.2
47.5°	1030.5	1036.4	1042.7	1055.6	1059.6
50°	958.3	964.6	968.6	980.1	987.8
52.5°	885.4	891.2	895.7	902.7	910.5
55°	805.4	811.1	818.3	826.1	827.9
57.5°	724.1	730.4	735.1	743.3	751.7
60°	636.8	644.1	650.4	658.2	666.6
62.5°	555.7	558.8	565.3	578.2	590.4
65°	478.1	482.1	483.3	490.5	502.7
67.5°	413.6	413.6	407.8	410.3	423.9
70°	345.9	343.3	338.8	336.2	347.3
72.5°	291.0	287.7	278.1	273.6	279.5
75°	236.1	232.8	222.5	217.4	218.1
77.5°	189.7	184.5	176.1	167.2	165.3
80°	144.0	141.9	133.7	125.2	118.6
82.5°	102.0	97.5	92.9	87.7	82.5
85°	61.2	60.0	55.6	52.3	47.8
87.5°	25.1	25.1	23.9	22.5	21.3
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)