

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: P1050502

Luminaire Tested: 24PTR-45-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050502
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2310-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-45-L850-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

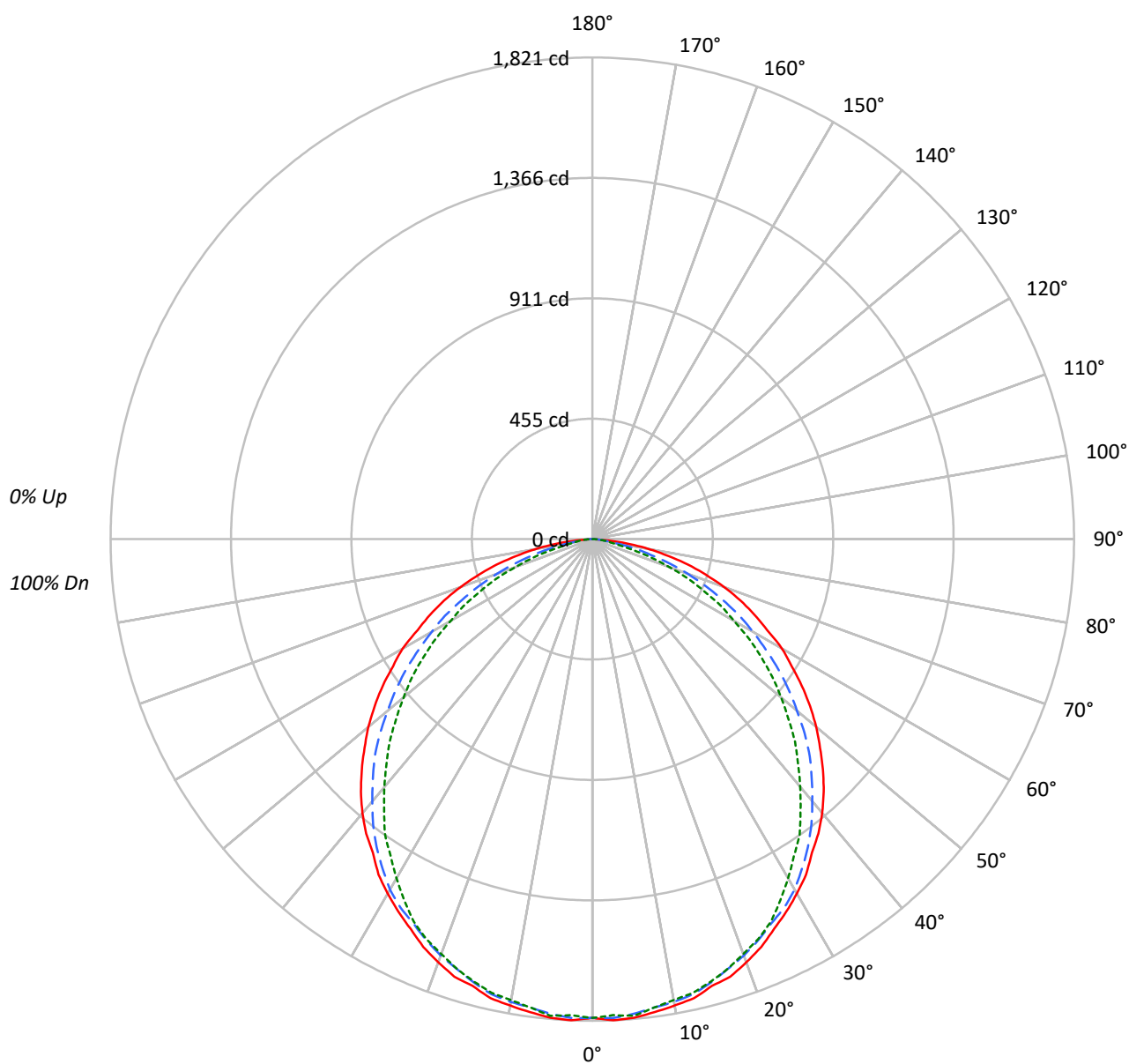
Lumens per Lamp: N/A
Luminaire Lumens: 4821.3 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	95	92	90	91	89	87	87	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	74	74	72
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	56	68	61	56	66	60	55	64	58	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	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	33	33	31
9	57	44	36	31	56	44	36	30	42	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	27	37	32	27	27	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2435	2435	2435
5°	2453	2433	2443
10°	2446	2427	2417
15°	2436	2416	2412
20°	2437	2399	2389
25°	2413	2378	2370
30°	2403	2377	2300
35°	2376	2334	2244
40°	2374	2272	2147
45°	2345	2213	2062
50°	2313	2114	1950
55°	2268	2016	1831
60°	2228	1886	1662
65°	2152	1730	1486
70°	2082	1506	1213
75°	1956	1188	835
80°	1695	718	501
85°	1132	516	483

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2345 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.6	3.6
10°-20°	491.0	10.2
20°-30°	741.6	15.4
30°-40°	881.8	18.3
40°-50°	894.3	18.5
50°-60°	776.5	16.1
60°-70°	551.3	11.4
70°-80°	263.4	5.5
80°-90°	49.9	1.0
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°	1404.1	29.1
0°-40°	2285.9	47.4
0°-60°	3956.7	82.1
0°-90°	4821.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4821.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1810	1810	1810	1810	1810	
5°	1816	1810	1801	1806	1809	172
15°	1749	1753	1735	1732	1731	495
25°	1626	1624	1602	1608	1597	751
35°	1447	1445	1421	1372	1366	909
45°	1232	1221	1163	1102	1083	950
55°	967	938	859	808	780	864
65°	676	625	543	485	467	669
75°	376	307	228	181	161	395
85°	73	39	33	32	31	92
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1810.0	1810.0	1810.0	1810.0	1810.0
2.5°	1820.8	1814.4	1812.2	1819.7	1801.4
5°	1816.5	1810.0	1801.4	1805.7	1809.0
7.5°	1803.6	1798.2	1786.3	1796.0	1786.3
10°	1790.6	1785.2	1776.6	1779.9	1769.1
12.5°	1777.7	1764.8	1762.6	1764.8	1757.2
15°	1748.6	1752.9	1734.6	1732.4	1731.3
17.5°	1734.6	1723.8	1704.4	1705.5	1703.3
20°	1702.2	1689.3	1675.3	1673.1	1668.8
22.5°	1668.8	1653.7	1640.8	1647.3	1637.6
25°	1625.7	1623.5	1602.0	1608.4	1596.6
27.5°	1588.0	1580.4	1570.7	1556.7	1539.4
30°	1547.0	1539.4	1529.7	1493.1	1480.2
32.5°	1503.9	1495.3	1475.8	1432.7	1418.7
35°	1446.7	1444.6	1420.9	1372.4	1365.9
37.5°	1403.6	1379.9	1360.5	1310.9	1292.6
40°	1351.9	1338.9	1293.7	1246.2	1222.5
42.5°	1294.7	1279.6	1227.9	1177.2	1151.4
45°	1232.2	1221.4	1163.2	1101.8	1083.4
47.5°	1167.5	1157.8	1088.8	1029.5	1005.8
50°	1105.0	1093.1	1010.1	953.0	931.4
52.5°	1037.1	1017.7	935.7	879.7	859.2
55°	967.0	937.9	859.2	808.5	780.5
57.5°	892.6	865.7	778.3	725.5	702.9
60°	827.9	790.2	700.7	646.8	617.7
62.5°	744.9	712.6	627.4	563.8	549.8
65°	675.9	625.3	543.3	485.1	466.8
67.5°	605.9	546.6	463.6	404.3	394.6
70°	529.3	467.9	382.7	324.5	308.3
72.5°	451.7	391.3	308.3	246.9	237.2
75°	376.2	307.2	228.5	181.1	160.6
77.5°	294.3	231.8	160.6	111.0	98.1
80°	218.8	156.3	92.7	65.8	64.7
82.5°	143.4	90.6	49.6	50.7	48.5
85°	73.3	38.8	33.4	32.3	31.3
87.5°	14.0	15.1	16.2	16.2	16.2
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)