

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: P1050733

Luminaire Tested: 24PTR-45-PL1-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050733
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-L850-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

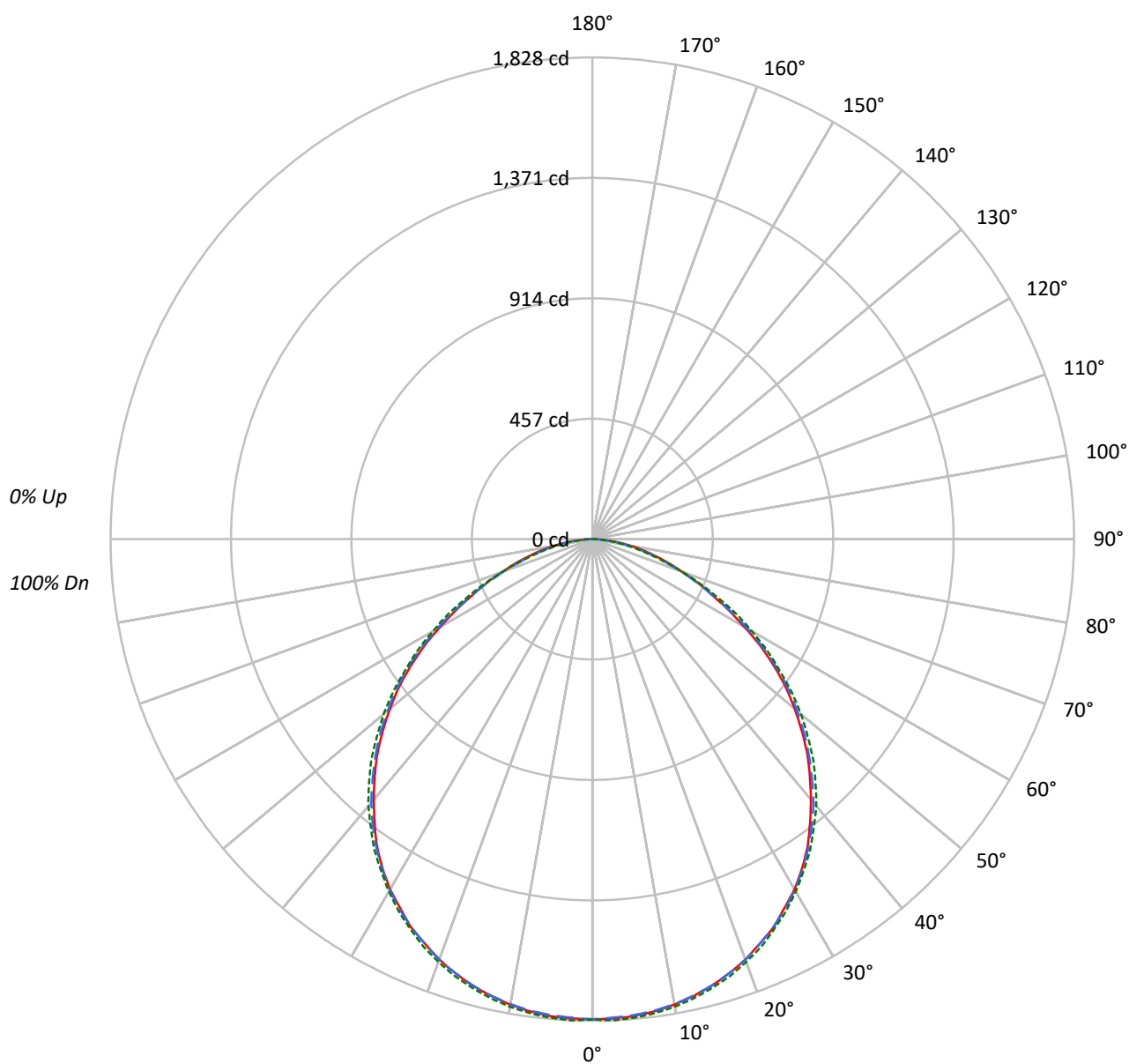
Lumens per Lamp: N/A
Luminaire Lumens: 4803.4 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2452	2452	2452
5°	2454	2449	2463
10°	2451	2448	2462
15°	2443	2442	2455
20°	2431	2431	2445
25°	2415	2411	2424
30°	2384	2387	2399
35°	2339	2348	2367
40°	2266	2292	2322
45°	2195	2214	2256
50°	2099	2121	2164
55°	1977	2008	2032
60°	1793	1831	1877
65°	1592	1610	1675
70°	1424	1395	1429
75°	1284	1210	1186
80°	1167	1083	962
85°	988	897	772

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2256 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.9	3.6
10°-20°	495.8	10.3
20°-30°	749.9	15.6
30°-40°	893.9	18.6
40°-50°	898.8	18.7
50°-60°	762.8	15.9
60°-70°	507.9	10.6
70°-80°	253.6	5.3
80°-90°	67.8	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°	1418.5	29.5
0°-40°	2312.4	48.1
0°-60°	3974.1	82.7
0°-90°	4803.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4803.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1822	1822	1822	1822	1822	
5°	1817	1817	1813	1822	1824	173
15°	1754	1756	1753	1761	1762	495
25°	1626	1626	1624	1632	1633	748
35°	1424	1425	1429	1439	1441	888
45°	1154	1156	1163	1179	1186	888
55°	843	849	856	864	866	751
65°	500	504	506	513	526	501
75°	247	244	233	227	228	265
85°	64	63	58	55	50	74
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1822.3	1822.3	1822.3	1822.3	1822.3
2.5°	1820.8	1822.3	1817.4	1826.2	1828.4
5°	1816.9	1817.4	1813.4	1821.5	1823.5
7.5°	1808.0	1808.8	1804.6	1813.4	1814.7
10°	1793.8	1795.3	1791.9	1800.0	1801.9
12.5°	1775.7	1777.6	1774.2	1783.0	1784.5
15°	1754.1	1756.0	1753.3	1760.7	1762.2
17.5°	1727.6	1729.1	1727.6	1734.5	1738.4
20°	1697.9	1697.9	1697.9	1704.0	1707.5
22.5°	1660.9	1664.3	1662.8	1670.9	1674.3
25°	1626.5	1626.5	1624.3	1631.9	1633.1
27.5°	1578.4	1583.8	1583.3	1590.0	1591.4
30°	1534.5	1536.0	1536.7	1541.4	1544.1
32.5°	1481.3	1482.5	1484.7	1491.3	1492.1
35°	1423.9	1425.3	1429.3	1439.3	1440.8
37.5°	1357.1	1364.5	1367.9	1378.7	1380.0
40°	1290.2	1294.8	1305.1	1316.4	1321.8
42.5°	1222.0	1227.4	1233.5	1249.0	1253.9
45°	1153.8	1155.7	1163.3	1178.8	1185.7
47.5°	1078.2	1084.3	1091.0	1104.5	1108.6
50°	1002.6	1009.3	1013.4	1025.5	1033.6
52.5°	926.3	932.5	937.1	944.5	952.6
55°	842.7	848.6	856.2	864.3	866.2
57.5°	757.6	764.2	769.1	777.7	786.5
60°	666.3	673.9	680.5	688.6	697.5
62.5°	581.4	584.6	591.5	605.0	617.7
65°	500.2	504.4	505.6	513.2	526.0
67.5°	432.8	432.8	426.6	429.3	443.5
70°	361.9	359.2	354.5	351.8	363.3
72.5°	304.4	301.0	291.0	286.3	292.4
75°	247.0	243.6	232.8	227.4	228.2
77.5°	198.5	193.1	184.2	174.9	173.0
80°	150.6	148.4	139.8	131.0	124.1
82.5°	106.7	102.1	97.1	91.8	86.4
85°	64.0	62.8	58.1	54.7	50.0
87.5°	26.2	26.2	25.0	23.6	22.3
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)