

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: P1050500

Luminaire Tested: 24PTR-35-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050500
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-35-L850-UNV-STD-W
Description: 3500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

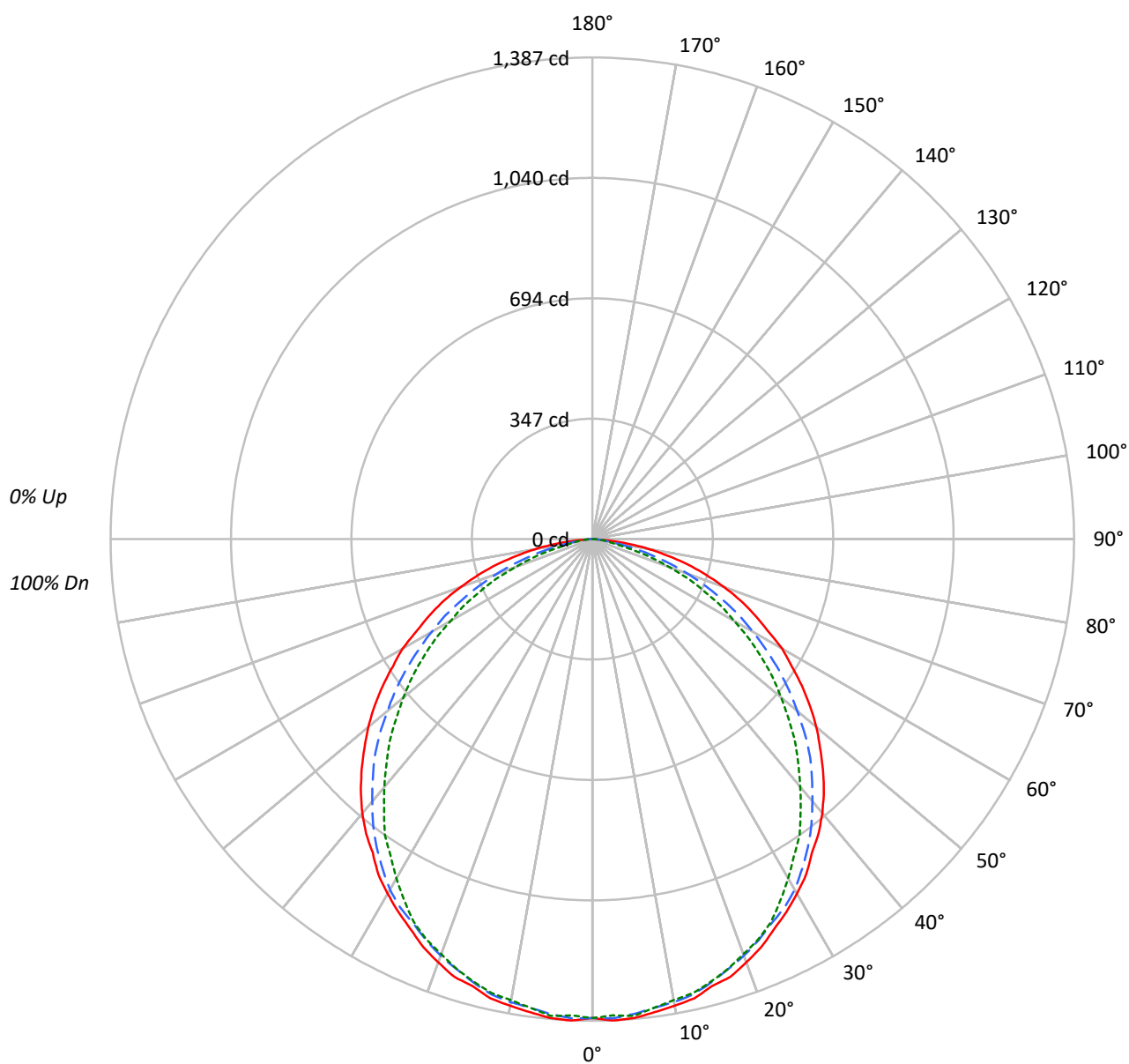
Lumens per Lamp: N/A
Luminaire Lumens: 3673.6 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 28
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

TEST NUMBER: P1050500

CATALOG NUMBER: 24PTR-35-L850-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1050500

CATALOG NUMBER: 24PTR-35-L850-UNV-STD-W

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°	1856	1856	1856
5°	1869	1854	1862
10°	1864	1849	1842
15°	1856	1841	1838
20°	1857	1828	1821
25°	1839	1812	1806
30°	1831	1811	1752
35°	1811	1778	1709
40°	1809	1731	1636
45°	1787	1686	1571
50°	1762	1611	1486
55°	1728	1536	1395
60°	1698	1437	1267
65°	1640	1318	1132
70°	1587	1147	924
75°	1490	905	636
80°	1292	547	382
85°	863	394	367

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1787 cd/sqm

TEST NUMBER: P1050500

CATALOG NUMBER: 24PTR-35-L850-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.7	3.6
10°-20°	374.1	10.2
20°-30°	565.1	15.4
30°-40°	671.9	18.3
40°-50°	681.4	18.5
50°-60°	591.7	16.1
60°-70°	420.0	11.4
70°-80°	200.7	5.5
80°-90°	38.0	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°	1069.9	29.1
0°-40°	1741.8	47.4
0°-60°	3014.8	82.1
0°-90°	3673.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3673.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1379	1379	1379	1379	1379	
5°	1384	1379	1373	1376	1378	131
15°	1332	1336	1322	1320	1319	377
25°	1239	1237	1221	1226	1216	572
35°	1102	1101	1083	1046	1041	693
45°	939	931	886	840	826	724
55°	737	715	655	616	595	658
65°	515	476	414	370	356	510
75°	287	234	174	138	122	301
85°	56	30	26	25	24	70
90°	0	0	0	0	0	

TEST NUMBER: P1050500

CATALOG NUMBER: 24PTR-35-L850-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1379.2	1379.2	1379.2	1379.2	1379.2
2.5°	1387.4	1382.5	1380.8	1386.6	1372.6
5°	1384.1	1379.2	1372.6	1375.9	1378.3
7.5°	1374.2	1370.1	1361.1	1368.5	1361.1
10°	1364.4	1360.3	1353.7	1356.2	1348.0
12.5°	1354.5	1344.7	1343.0	1344.7	1338.9
15°	1332.3	1335.6	1321.7	1320.0	1319.2
17.5°	1321.7	1313.5	1298.7	1299.5	1297.8
20°	1297.0	1287.2	1276.5	1274.8	1271.6
22.5°	1271.6	1260.1	1250.2	1255.1	1247.7
25°	1238.7	1237.1	1220.6	1225.6	1216.5
27.5°	1210.0	1204.2	1196.8	1186.1	1173.0
30°	1178.7	1173.0	1165.6	1137.7	1127.8
32.5°	1145.9	1139.3	1124.5	1091.7	1081.0
35°	1102.3	1100.7	1082.6	1045.7	1040.7
37.5°	1069.5	1051.4	1036.6	998.8	984.9
40°	1030.1	1020.2	985.7	949.6	931.5
42.5°	986.5	975.0	935.6	897.0	877.3
45°	938.9	930.7	886.3	839.5	825.5
47.5°	889.6	882.2	829.6	784.5	766.4
50°	842.0	832.9	769.7	726.1	709.7
52.5°	790.2	775.4	713.0	670.3	654.7
55°	736.8	714.6	654.7	616.1	594.7
57.5°	680.1	659.6	593.1	552.8	535.6
60°	630.9	602.1	533.9	492.9	470.7
62.5°	567.6	543.0	478.1	429.6	418.9
65°	515.0	476.4	414.0	369.6	355.7
67.5°	461.6	416.5	353.2	308.0	300.6
70°	403.3	356.5	291.6	247.2	234.9
72.5°	344.2	298.2	234.9	188.1	180.7
75°	286.7	234.1	174.1	138.0	122.4
77.5°	224.2	176.6	122.4	84.6	74.7
80°	166.7	119.1	70.6	50.1	49.3
82.5°	109.2	69.0	37.8	38.6	37.0
85°	55.9	29.6	25.5	24.6	23.8
87.5°	10.7	11.5	12.3	12.3	12.3
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)