

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: P1050111

Luminaire Tested: PTR-14-50-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050111
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: PTR-14-50-L850-UNV-STD-W
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

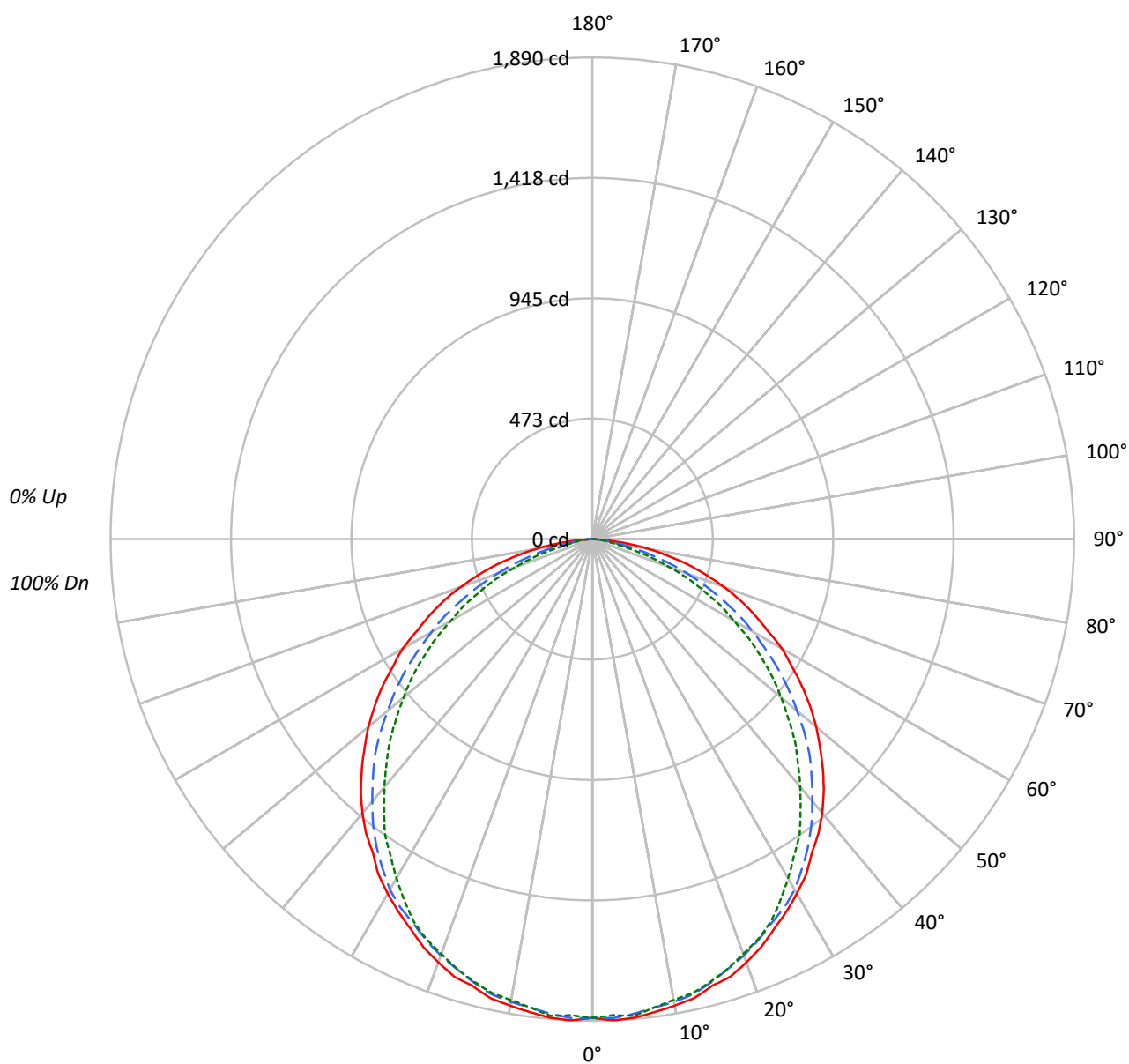
Lumens per Lamp: N/A
Luminaire Lumens: 5004.1 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 40.9
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: P1050111

CATALOG NUMBER: PTR-14-50-L850-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1050111

CATALOG NUMBER: PTR-14-50-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°	5055	5055	5055
5°	5093	5051	5072
10°	5078	5038	5017
15°	5056	5015	5006
20°	5059	4979	4960
25°	5010	4937	4920
30°	4989	4933	4773
35°	4933	4845	4657
40°	4929	4717	4457
45°	4867	4595	4279
50°	4801	4389	4047
55°	4709	4184	3801
60°	4625	3914	3450
65°	4467	3591	3085
70°	4323	3125	2518
75°	4060	2466	1733
80°	3519	1491	1040
85°	2350	1071	1000

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4867 cd/sqm

TEST NUMBER: P1050111

CATALOG NUMBER: PTR-14-50-L850-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.1	3.6
10°-20°	509.6	10.2
20°-30°	769.7	15.4
30°-40°	915.2	18.3
40°-50°	928.2	18.5
50°-60°	806.0	16.1
60°-70°	572.2	11.4
70°-80°	273.4	5.5
80°-90°	51.8	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°	1457.4	29.1
0°-40°	2372.5	47.4
0°-60°	4106.7	82.1
0°-90°	5004.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5004.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1879	1879	1879	1879	1879	
5°	1885	1879	1870	1874	1878	179
15°	1815	1819	1800	1798	1797	514
25°	1687	1685	1663	1669	1657	779
35°	1502	1499	1475	1424	1418	944
45°	1279	1268	1207	1144	1124	987
55°	1004	973	892	839	810	897
65°	702	649	564	504	484	695
75°	390	319	237	188	167	409
85°	76	40	35	34	32	96
90°	0	0	0	0	0	

TEST NUMBER: P1050111

CATALOG NUMBER: PTR-14-50-L850-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1878.6	1878.6	1878.6	1878.6	1878.6
2.5°	1889.8	1883.1	1880.9	1888.7	1869.7
5°	1885.3	1878.6	1869.7	1874.2	1877.5
7.5°	1871.9	1866.3	1854.0	1864.1	1854.0
10°	1858.5	1852.9	1843.9	1847.3	1836.1
12.5°	1845.1	1831.6	1829.4	1831.6	1823.8
15°	1814.9	1819.3	1800.3	1798.1	1797.0
17.5°	1800.3	1789.1	1769.0	1770.1	1767.9
20°	1766.7	1753.3	1738.8	1736.5	1732.1
22.5°	1732.1	1716.4	1703.0	1709.7	1699.6
25°	1687.3	1685.1	1662.7	1669.4	1657.1
27.5°	1648.1	1640.3	1630.2	1615.7	1597.8
30°	1605.6	1597.8	1587.7	1549.7	1536.2
32.5°	1560.9	1551.9	1531.8	1487.0	1472.5
35°	1501.6	1499.3	1474.7	1424.4	1417.6
37.5°	1456.8	1432.2	1412.1	1360.6	1341.6
40°	1403.1	1389.7	1342.7	1293.4	1268.8
42.5°	1343.8	1328.1	1274.4	1221.8	1195.0
45°	1278.9	1267.7	1207.3	1143.5	1124.5
47.5°	1211.8	1201.7	1130.1	1068.5	1043.9
50°	1146.9	1134.6	1048.4	989.1	966.7
52.5°	1076.4	1056.2	971.2	913.0	891.8
55°	1003.7	973.4	891.8	839.2	810.1
57.5°	926.4	898.5	807.8	753.0	729.5
60°	859.3	820.2	727.3	671.3	641.1
62.5°	773.2	739.6	651.2	585.2	570.6
65°	701.6	649.0	563.9	503.5	484.5
67.5°	628.8	567.3	481.1	419.6	409.5
70°	549.4	485.6	397.2	336.8	320.0
72.5°	468.8	406.2	320.0	256.2	246.2
75°	390.5	318.9	237.2	188.0	166.7
77.5°	305.5	240.6	166.7	115.2	101.8
80°	227.1	162.2	96.2	68.3	67.1
82.5°	148.8	94.0	51.5	52.6	50.4
85°	76.1	40.3	34.7	33.6	32.4
87.5°	14.5	15.7	16.8	16.8	16.8
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)