

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: P1050258

Luminaire Tested: PTR-14-50-PL1-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050258
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: PTR-14-50-PL1-L850-UNV-STD-W
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

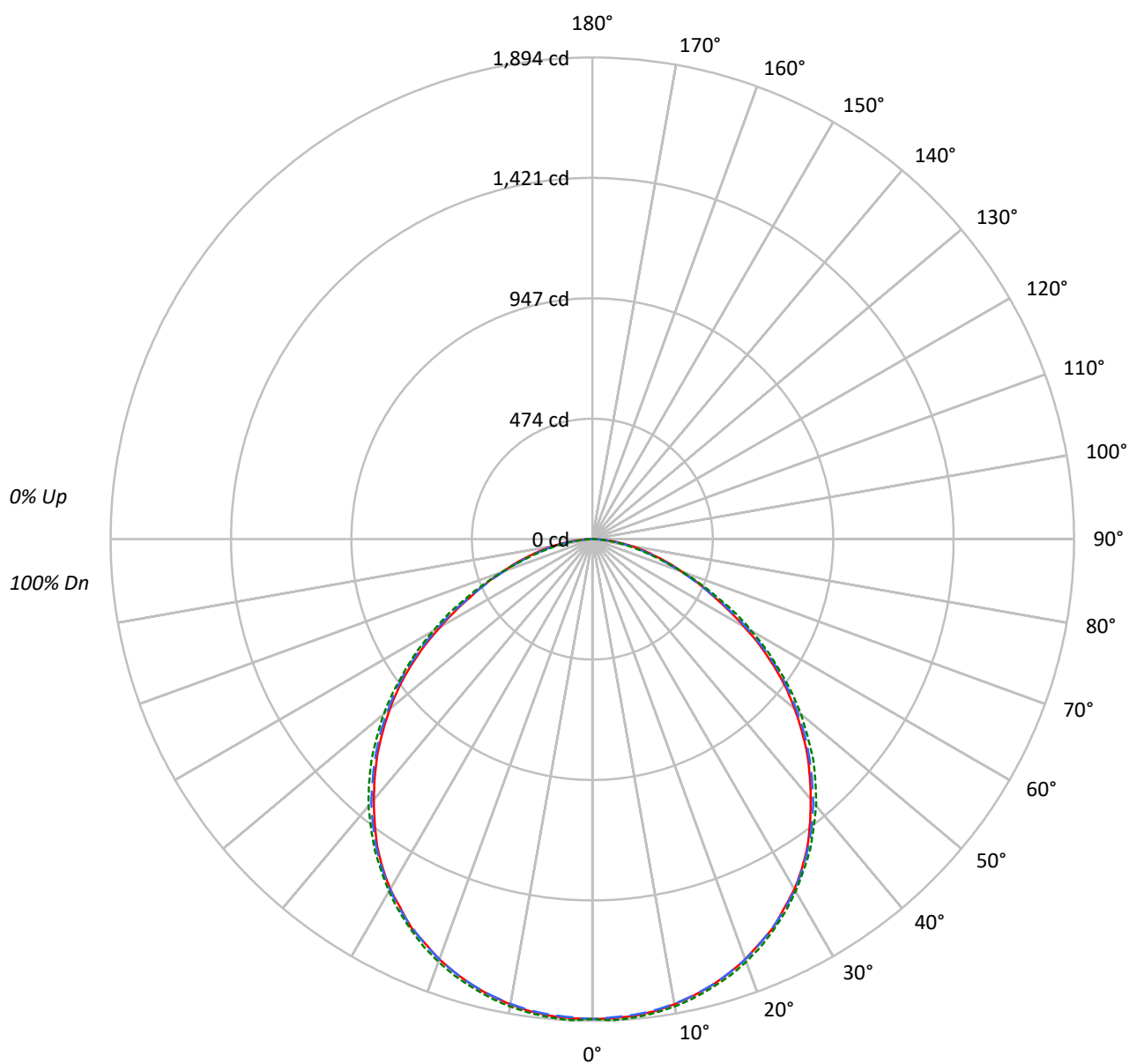
Lumens per Lamp: N/A
Luminaire Lumens: 4974.5 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

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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°	5078	5078	5078
5°	5083	5073	5101
10°	5076	5071	5099
15°	5061	5059	5084
20°	5035	5035	5064
25°	5001	4994	5022
30°	4938	4945	4969
35°	4844	4863	4902
40°	4693	4748	4809
45°	4547	4585	4673
50°	4347	4394	4481
55°	4094	4160	4209
60°	3714	3793	3887
65°	3298	3334	3468
70°	2948	2888	2961
75°	2660	2507	2457
80°	2417	2244	1993
85°	2047	1859	1599

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4673 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.0	3.6
10°-20°	513.4	10.3
20°-30°	776.6	15.6
30°-40°	925.7	18.6
40°-50°	930.8	18.7
50°-60°	790.0	15.9
60°-70°	526.0	10.6
70°-80°	262.6	5.3
80°-90°	70.3	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°	1469.0	29.5
0°-40°	2394.7	48.1
0°-60°	4115.6	82.7
0°-90°	4974.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4974.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1887	1887	1887	1887	1887	
5°	1882	1882	1878	1886	1888	179
15°	1816	1819	1816	1823	1825	513
25°	1684	1684	1682	1690	1691	774
35°	1475	1476	1480	1491	1492	920
45°	1195	1197	1205	1221	1228	919
55°	873	879	887	895	897	778
65°	518	522	524	532	545	519
75°	256	252	241	236	236	275
85°	66	65	60	57	52	77
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1887.2	1887.2	1887.2	1887.2	1887.2
2.5°	1885.6	1887.2	1882.1	1891.2	1893.5
5°	1881.6	1882.1	1878.0	1886.4	1888.4
7.5°	1872.4	1873.2	1868.9	1878.0	1879.3
10°	1857.7	1859.2	1855.7	1864.0	1866.1
12.5°	1838.9	1840.9	1837.4	1846.5	1848.0
15°	1816.5	1818.6	1815.8	1823.4	1824.9
17.5°	1789.1	1790.6	1789.1	1796.2	1800.3
20°	1758.4	1758.4	1758.4	1764.7	1768.3
22.5°	1720.0	1723.5	1722.0	1730.4	1734.0
25°	1684.4	1684.4	1682.1	1690.0	1691.3
27.5°	1634.6	1640.2	1639.7	1646.6	1648.1
30°	1589.2	1590.7	1591.4	1596.3	1599.1
32.5°	1534.0	1535.3	1537.6	1544.4	1545.2
35°	1474.6	1476.1	1480.2	1490.6	1492.1
37.5°	1405.5	1413.1	1416.6	1427.8	1429.1
40°	1336.1	1340.9	1351.6	1363.3	1368.9
42.5°	1265.5	1271.1	1277.4	1293.4	1298.5
45°	1194.8	1196.9	1204.8	1220.8	1227.9
47.5°	1116.6	1122.9	1129.8	1143.8	1148.1
50°	1038.3	1045.2	1049.5	1062.0	1070.4
52.5°	959.3	965.7	970.5	978.1	986.5
55°	872.7	878.8	886.7	895.1	897.1
57.5°	784.5	791.4	796.5	805.4	814.5
60°	690.0	697.9	704.8	713.1	722.3
62.5°	602.1	605.4	612.5	626.5	639.7
65°	518.0	522.3	523.6	531.5	544.7
67.5°	448.2	448.2	441.8	444.6	459.3
70°	374.7	371.9	367.1	364.3	376.3
72.5°	315.3	311.7	301.3	296.5	302.8
75°	255.8	252.3	241.1	235.5	236.3
77.5°	205.5	199.9	190.8	181.1	179.1
80°	156.0	153.7	144.8	135.7	128.6
82.5°	110.5	105.7	100.6	95.0	89.4
85°	66.3	65.0	60.2	56.7	51.8
87.5°	27.2	27.2	25.9	24.4	23.1
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)