

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: P1050454

Luminaire Tested: PTR-14-50-PW1-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050454
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737743)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: PTR-14-50-PW1-L850-UNV-STD-W
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND RIPPLE LENS

Light Source:
Ballast/Driver: -

Summary

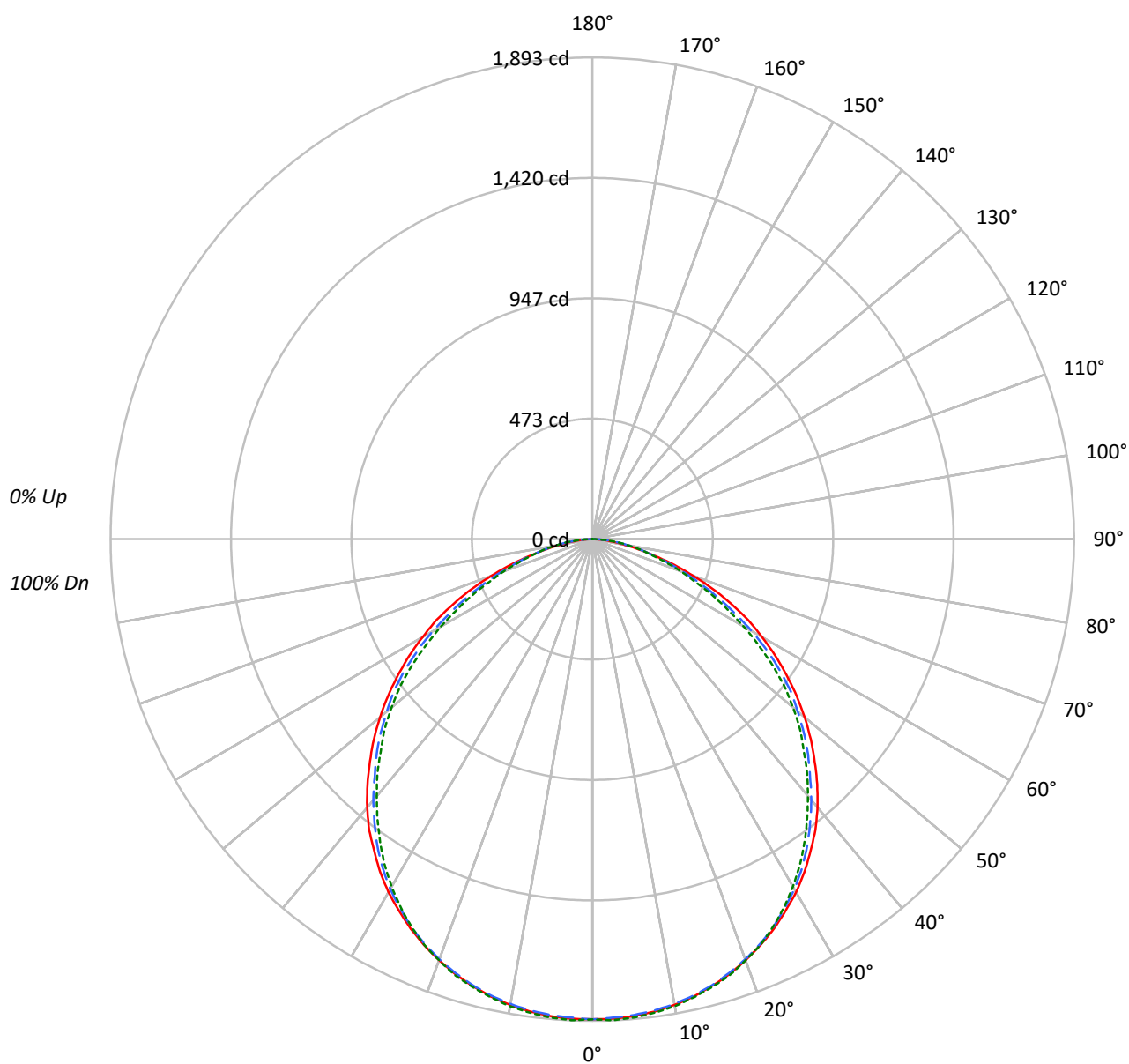
Lumens per Lamp: N/A
Luminaire Lumens: 5007.7 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	95	98	95	92	94	92	90	91	89	87	87	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	74	74	71
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	57	68	61	56	66	60	55	64	59	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	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	33	33	31
9	58	44	36	31	56	44	36	31	43	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	28	38	32	27	27	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5078	5078	5078
5°	5082	5071	5097
10°	5080	5069	5094
15°	5064	5057	5076
20°	5044	5032	5044
25°	5016	4995	4991
30°	4978	4934	4900
35°	4911	4837	4775
40°	4836	4704	4630
45°	4702	4563	4470
50°	4560	4411	4309
55°	4370	4222	4054
60°	4143	3899	3695
65°	3833	3482	3309
70°	3323	3031	2917
75°	2652	2594	2522
80°	2016	2252	2252
85°	1491	1920	1920

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4702 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.0	3.6
10°-20°	513.3	10.2
20°-30°	775.7	15.5
30°-40°	921.1	18.4
40°-50°	928.0	18.5
50°-60°	802.1	16.0
60°-70°	548.2	10.9
70°-80°	270.3	5.4
80°-90°	69.9	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°	1468.0	29.3
0°-40°	2389.1	47.7
0°-60°	4119.2	82.3
0°-90°	5007.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5007.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1887	1887	1887	1887	1887	
5°	1881	1882	1877	1885	1887	179
15°	1818	1820	1815	1822	1822	513
25°	1689	1688	1682	1684	1681	778
35°	1495	1490	1472	1459	1454	936
45°	1236	1222	1199	1185	1175	954
55°	931	929	900	873	864	833
65°	602	580	547	523	520	594
75°	255	253	250	250	243	278
85°	48	57	62	64	62	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1887.0	1887.0	1887.0	1887.0	1887.0
2.5°	1886.5	1887.0	1882.2	1890.6	1892.6
5°	1881.4	1882.2	1877.3	1885.0	1887.0
7.5°	1872.5	1873.8	1868.2	1875.8	1877.3
10°	1859.1	1859.8	1855.0	1862.6	1864.1
12.5°	1841.0	1841.5	1837.5	1844.3	1844.3
15°	1817.9	1819.9	1815.1	1821.5	1822.0
17.5°	1792.0	1792.7	1787.9	1794.8	1796.3
20°	1761.2	1761.2	1757.2	1762.8	1761.2
22.5°	1726.9	1726.9	1722.1	1724.9	1726.2
25°	1689.3	1687.8	1682.2	1683.7	1680.9
27.5°	1645.9	1645.9	1636.0	1636.0	1631.2
30°	1601.9	1598.4	1588.0	1581.6	1576.8
32.5°	1551.4	1546.5	1533.3	1522.2	1518.6
35°	1495.0	1489.9	1472.4	1459.1	1453.6
37.5°	1440.3	1429.2	1406.0	1392.8	1386.5
40°	1376.6	1362.6	1339.0	1320.7	1317.9
42.5°	1308.2	1297.0	1266.3	1252.8	1249.5
45°	1235.6	1222.1	1199.0	1185.0	1174.6
47.5°	1164.2	1154.3	1127.8	1111.1	1107.5
50°	1089.2	1080.8	1053.6	1035.6	1029.3
52.5°	1011.7	1006.1	983.0	959.9	952.3
55°	931.4	928.6	899.9	873.2	864.1
57.5°	852.4	848.9	813.0	782.3	773.9
60°	769.8	759.4	724.4	695.7	686.5
62.5°	691.6	669.2	631.4	609.0	598.6
65°	601.9	580.3	546.8	522.9	519.6
67.5°	514.0	488.1	462.2	447.4	436.2
70°	422.3	404.7	385.2	372.7	370.7
72.5°	336.9	324.5	314.5	306.9	300.6
75°	255.1	253.1	249.5	249.5	242.6
77.5°	187.5	192.3	195.1	194.4	195.9
80°	130.1	139.7	145.3	146.1	145.3
82.5°	82.6	93.8	102.9	104.2	105.7
85°	48.3	56.7	62.2	63.5	62.2
87.5°	21.6	27.2	28.7	30.0	28.7
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)