

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: P1050307

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

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050307
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2409-224-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: PTR-14-50-PLG-L850-UNV-STD-W
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

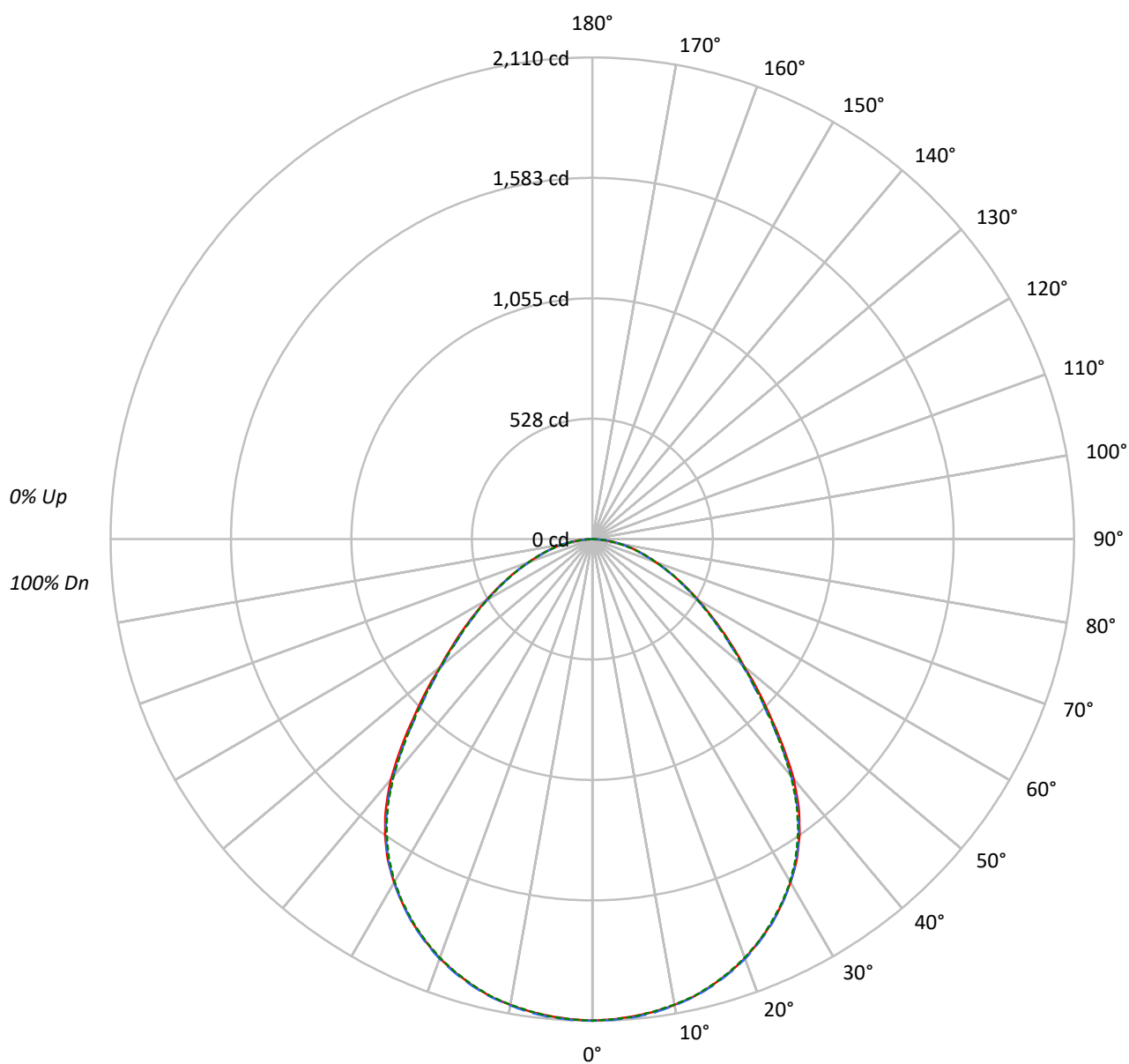
Lumens per Lamp: N/A
Luminaire Lumens: 4753.9 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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: P1050307

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

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	100		
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74		
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	69	66	64		
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56		
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49		
6	74	61	53	47	72	60	52	47	58	51	46	57	51	46	55	50	45	43		
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39		
8	64	51	43	38	62	51	43	38	49	42	37	48	42	37	47	41	37	35		
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32		
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5677	5677	5677
5°	5667	5679	5671
10°	5663	5667	5658
15°	5640	5648	5636
20°	5596	5604	5587
25°	5517	5522	5504
30°	5397	5397	5383
35°	5199	5185	5160
40°	4818	4765	4750
45°	4211	4143	4160
50°	3636	3592	3611
55°	3232	3182	3189
60°	2893	2853	2853
65°	2593	2574	2584
70°	2333	2309	2333
75°	2164	2132	2164
80°	2019	1996	1926
85°	1711	1711	1525

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4211 cd/sqm

TEST NUMBER: P1050307

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.7	4.2
10°-20°	571.5	12.0
20°-30°	855.2	18.0
30°-40°	979.8	20.6
40°-50°	847.4	17.8
50°-60°	613.3	12.9
60°-70°	404.0	8.5
70°-80°	219.9	4.6
80°-90°	63.0	1.3
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°	1626.5	34.2
0°-40°	2606.3	54.8
0°-60°	4067.0	85.6
0°-90°	4753.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4753.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2110	2110	2110	2110	2110	
5°	2098	2102	2102	2102	2099	199
15°	2024	2026	2027	2030	2023	571
25°	1858	1858	1860	1861	1854	855
35°	1583	1581	1578	1577	1571	983
45°	1106	1104	1089	1087	1093	857
55°	689	686	678	674	680	620
65°	407	410	404	401	406	407
75°	208	208	205	205	208	222
85°	55	55	55	57	49	64
90°	0	0	0	0	0	

TEST NUMBER: P1050307

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2109.7	2109.7	2109.7	2109.7	2109.7
2.5°	2105.2	2109.7	2108.2	2109.7	2105.2
5°	2097.8	2102.2	2102.2	2102.2	2099.3
7.5°	2087.3	2090.3	2091.8	2093.3	2085.8
10°	2072.3	2075.3	2073.8	2076.8	2070.8
12.5°	2052.8	2052.8	2054.3	2057.3	2051.3
15°	2024.4	2025.9	2027.4	2030.4	2022.9
17.5°	1991.4	1992.9	1994.4	1995.9	1989.9
20°	1954.0	1954.0	1957.0	1958.5	1951.0
22.5°	1907.6	1907.6	1910.6	1915.1	1906.1
25°	1858.2	1858.2	1859.7	1861.2	1853.7
27.5°	1799.8	1799.8	1801.3	1805.8	1796.8
30°	1736.9	1735.4	1736.9	1738.4	1732.4
32.5°	1666.5	1665.0	1663.5	1665.0	1657.5
35°	1582.7	1581.2	1578.2	1576.7	1570.7
37.5°	1485.3	1482.4	1476.4	1476.4	1470.4
40°	1371.6	1364.1	1356.6	1353.6	1352.1
42.5°	1239.8	1233.8	1223.3	1221.8	1221.8
45°	1106.5	1103.5	1088.6	1087.1	1093.0
47.5°	986.7	979.3	965.8	962.8	971.8
50°	868.5	869.9	858.0	853.5	862.5
52.5°	775.6	772.6	762.1	759.1	766.6
55°	688.8	685.8	678.3	673.8	679.8
57.5°	609.4	607.9	600.4	598.9	601.9
60°	537.5	536.0	530.1	528.6	530.1
62.5°	470.2	470.2	464.2	461.2	465.7
65°	407.3	410.3	404.3	401.3	405.8
67.5°	350.4	353.4	347.4	344.4	350.4
70°	296.5	299.5	293.5	290.5	296.5
72.5°	250.1	251.6	247.1	245.6	253.0
75°	208.1	208.1	205.1	205.1	208.1
77.5°	169.2	167.7	166.2	166.2	163.2
80°	130.3	128.8	128.8	128.8	124.3
82.5°	92.8	89.8	91.3	92.8	85.3
85°	55.4	55.4	55.4	56.9	49.4
87.5°	22.5	22.5	21.0	22.5	19.5
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)