

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: P1050304

Luminaire Tested: PTR-14-50-PLG-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050304
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-L830-UNV-STD-W
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

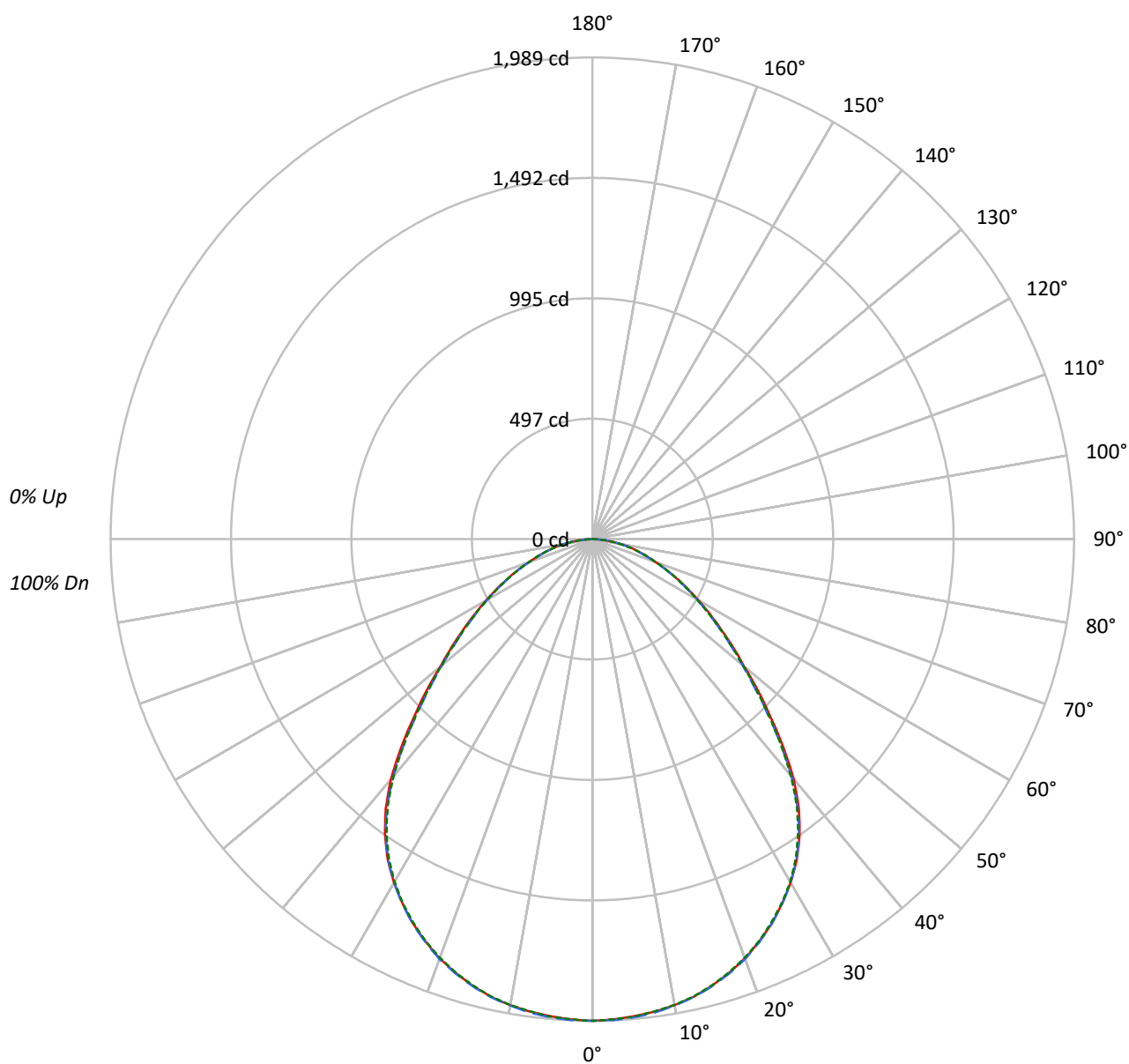
Lumens per Lamp: N/A
Luminaire Lumens: 4482.2 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

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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	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°	5353	5353	5353
5°	5343	5354	5347
10°	5339	5343	5335
15°	5317	5325	5314
20°	5276	5284	5268
25°	5202	5206	5190
30°	5088	5088	5075
35°	4902	4888	4865
40°	4543	4493	4478
45°	3970	3906	3922
50°	3428	3386	3404
55°	3047	3000	3007
60°	2728	2690	2690
65°	2445	2427	2436
70°	2199	2177	2199
75°	2040	2011	2040
80°	1903	1881	1816
85°	1612	1612	1439

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3970 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.3	4.2
10°-20°	538.9	12.0
20°-30°	806.3	18.0
30°-40°	923.8	20.6
40°-50°	799.0	17.8
50°-60°	578.3	12.9
60°-70°	380.9	8.5
70°-80°	207.3	4.6
80°-90°	59.4	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°	1533.5	34.2
0°-40°	2457.3	54.8
0°-60°	3834.6	85.6
0°-90°	4482.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4482.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1989	1989	1989	1989	1989	
5°	1978	1982	1982	1982	1979	188
15°	1909	1910	1912	1914	1907	538
25°	1752	1752	1753	1755	1748	806
35°	1492	1491	1488	1487	1481	927
45°	1043	1040	1026	1025	1031	808
55°	649	647	640	635	641	585
65°	384	387	381	378	383	383
75°	196	196	193	193	196	209
85°	52	52	52	54	47	60
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1989.2	1989.2	1989.2	1989.2	1989.2
2.5°	1984.9	1989.2	1987.8	1989.2	1984.9
5°	1977.9	1982.1	1982.1	1982.1	1979.3
7.5°	1968.0	1970.8	1972.2	1973.6	1966.6
10°	1953.9	1956.7	1955.3	1958.1	1952.5
12.5°	1935.5	1935.5	1936.9	1939.8	1934.1
15°	1908.7	1910.1	1911.5	1914.4	1907.3
17.5°	1877.6	1879.1	1880.5	1881.9	1876.2
20°	1842.4	1842.4	1845.2	1846.6	1839.5
22.5°	1798.6	1798.6	1801.4	1805.6	1797.2
25°	1752.0	1752.0	1753.4	1754.8	1747.8
27.5°	1696.9	1696.9	1698.4	1702.6	1694.1
30°	1637.6	1636.2	1637.6	1639.1	1633.4
32.5°	1571.3	1569.9	1568.5	1569.9	1562.8
35°	1492.2	1490.8	1488.0	1486.6	1480.9
37.5°	1400.5	1397.6	1392.0	1392.0	1386.4
40°	1293.2	1286.1	1279.1	1276.2	1274.8
42.5°	1168.9	1163.3	1153.4	1152.0	1152.0
45°	1043.3	1040.5	1026.4	1024.9	1030.6
47.5°	930.4	923.3	910.6	907.8	916.2
50°	818.8	820.2	808.9	804.7	813.2
52.5°	731.3	728.5	718.6	715.8	722.8
55°	649.4	646.6	639.5	635.3	640.9
57.5°	574.6	573.2	566.1	564.7	567.5
60°	506.8	505.4	499.8	498.4	499.8
62.5°	443.3	443.3	437.6	434.8	439.1
65°	384.0	386.8	381.2	378.4	382.6
67.5°	330.4	333.2	327.5	324.7	330.4
70°	279.5	282.4	276.7	273.9	279.5
72.5°	235.8	237.2	232.9	231.5	238.6
75°	196.2	196.2	193.4	193.4	196.2
77.5°	159.5	158.1	156.7	156.7	153.9
80°	122.8	121.4	121.4	121.4	117.2
82.5°	87.5	84.7	86.1	87.5	80.5
85°	52.2	52.2	52.2	53.6	46.6
87.5°	21.2	21.2	19.8	21.2	18.4
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)