

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: P1050310

Luminaire Tested: PTR-14-50-PLG-L940-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050310
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-L940-UNV-STD-W
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

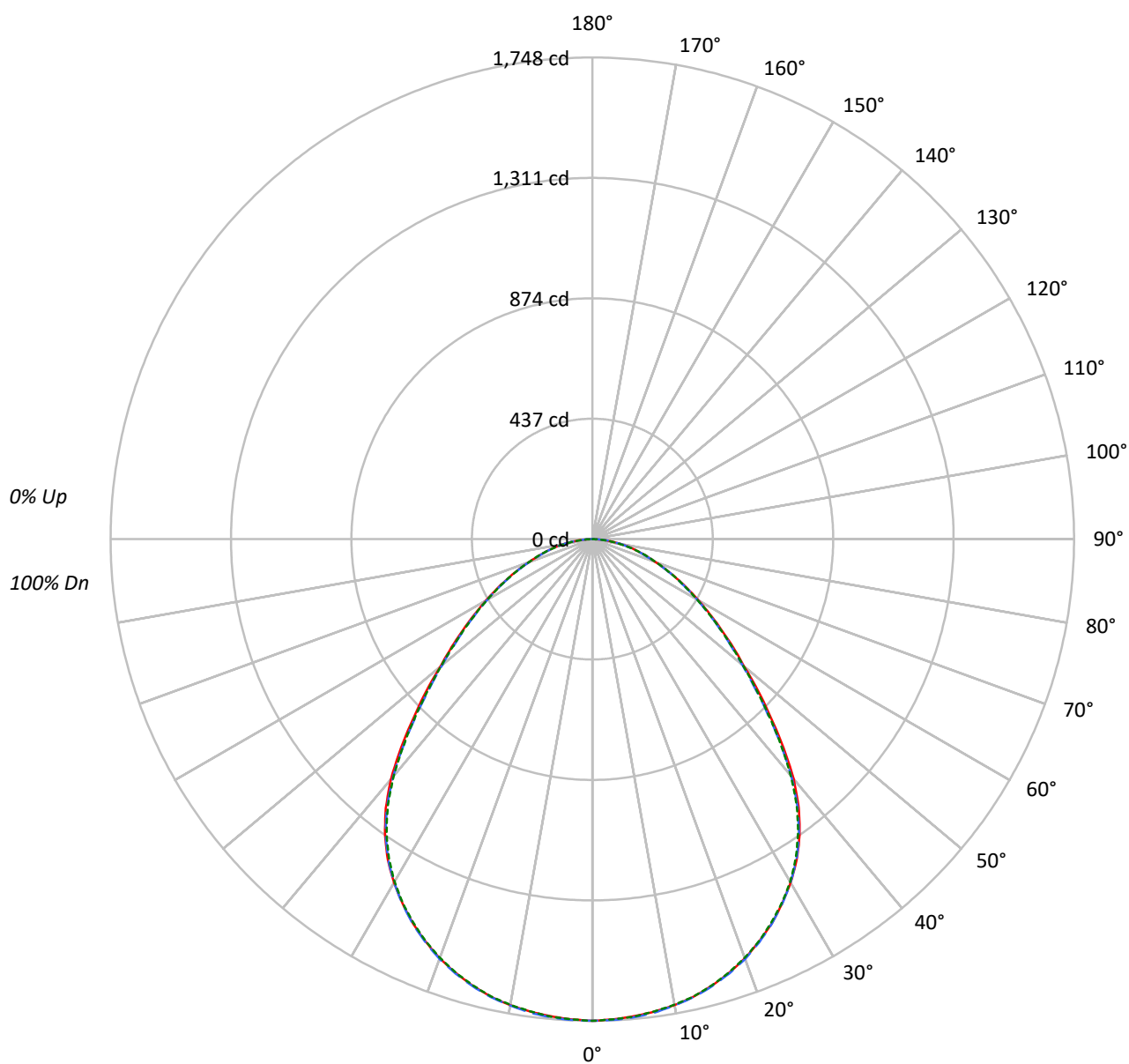
Lumens per Lamp: N/A
Luminaire Lumens: 3938.9 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86	84	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74	72	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	69	66	64	62	64
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56	54	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49	47	49
6	74	61	53	47	72	60	52	47	58	51	46	57	51	46	55	50	45	43	41	43
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39	37	39
8	64	51	43	38	62	51	43	38	49	42	37	48	42	37	47	41	37	35	33	35
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32	30	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29	27	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4704	4704	4704
5°	4695	4705	4699
10°	4692	4695	4688
15°	4673	4680	4669
20°	4636	4643	4629
25°	4571	4575	4560
30°	4472	4472	4460
35°	4308	4296	4275
40°	3992	3948	3935
45°	3489	3432	3447
50°	3013	2976	2992
55°	2677	2637	2643
60°	2397	2364	2364
65°	2149	2133	2141
70°	1932	1913	1932
75°	1792	1768	1792
80°	1672	1654	1596
85°	1417	1417	1263

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3489 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.5	4.2
10°-20°	473.6	12.0
20°-30°	708.6	18.0
30°-40°	811.8	20.6
40°-50°	702.1	17.8
50°-60°	508.2	12.9
60°-70°	334.7	8.5
70°-80°	182.2	4.6
80°-90°	52.2	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°	1347.6	34.2
0°-40°	2159.5	54.8
0°-60°	3369.8	85.6
0°-90°	3938.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3938.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1748	1748	1748	1748	1748	
5°	1738	1742	1742	1742	1739	165
15°	1677	1679	1680	1682	1676	473
25°	1540	1540	1541	1542	1536	708
35°	1311	1310	1308	1306	1301	815
45°	917	914	902	901	906	710
55°	571	568	562	558	563	514
65°	338	340	335	332	336	337
75°	172	172	170	170	172	184
85°	46	46	46	47	41	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1748.1	1748.1	1748.1	1748.1	1748.1
2.5°	1744.3	1748.1	1746.8	1748.1	1744.3
5°	1738.1	1741.9	1741.9	1741.9	1739.4
7.5°	1729.5	1731.9	1733.2	1734.4	1728.2
10°	1717.1	1719.5	1718.3	1720.8	1715.8
12.5°	1700.9	1700.9	1702.2	1704.6	1699.7
15°	1677.3	1678.6	1679.8	1682.3	1676.1
17.5°	1650.1	1651.3	1652.5	1653.8	1648.8
20°	1619.0	1619.0	1621.5	1622.8	1616.6
22.5°	1580.6	1580.6	1583.1	1586.8	1579.3
25°	1539.6	1539.6	1540.9	1542.1	1535.9
27.5°	1491.3	1491.3	1492.5	1496.2	1488.8
30°	1439.1	1437.9	1439.1	1440.4	1435.4
32.5°	1380.8	1379.6	1378.4	1379.6	1373.4
35°	1311.4	1310.1	1307.6	1306.4	1301.4
37.5°	1230.7	1228.2	1223.3	1223.3	1218.3
40°	1136.4	1130.2	1124.0	1121.5	1120.3
42.5°	1027.3	1022.3	1013.6	1012.4	1012.4
45°	916.8	914.4	901.9	900.7	905.7
47.5°	817.6	811.4	800.2	797.7	805.2
50°	719.6	720.8	710.9	707.2	714.6
52.5°	642.7	640.2	631.5	629.0	635.2
55°	570.7	568.2	562.0	558.3	563.3
57.5°	504.9	503.7	497.5	496.3	498.7
60°	445.4	444.2	439.2	437.9	439.2
62.5°	389.6	389.6	384.6	382.1	385.8
65°	337.5	339.9	335.0	332.5	336.2
67.5°	290.3	292.8	287.8	285.3	290.3
70°	245.6	248.1	243.2	240.7	245.6
72.5°	207.2	208.4	204.7	203.5	209.7
75°	172.4	172.4	170.0	170.0	172.4
77.5°	140.2	139.0	137.7	137.7	135.2
80°	107.9	106.7	106.7	106.7	103.0
82.5°	76.9	74.4	75.7	76.9	70.7
85°	45.9	45.9	45.9	47.1	40.9
87.5°	18.6	18.6	17.4	18.6	16.1
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)