

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: P1050108

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

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050108
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2310-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: PTR-14-50-L830-UNV-STD-W
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

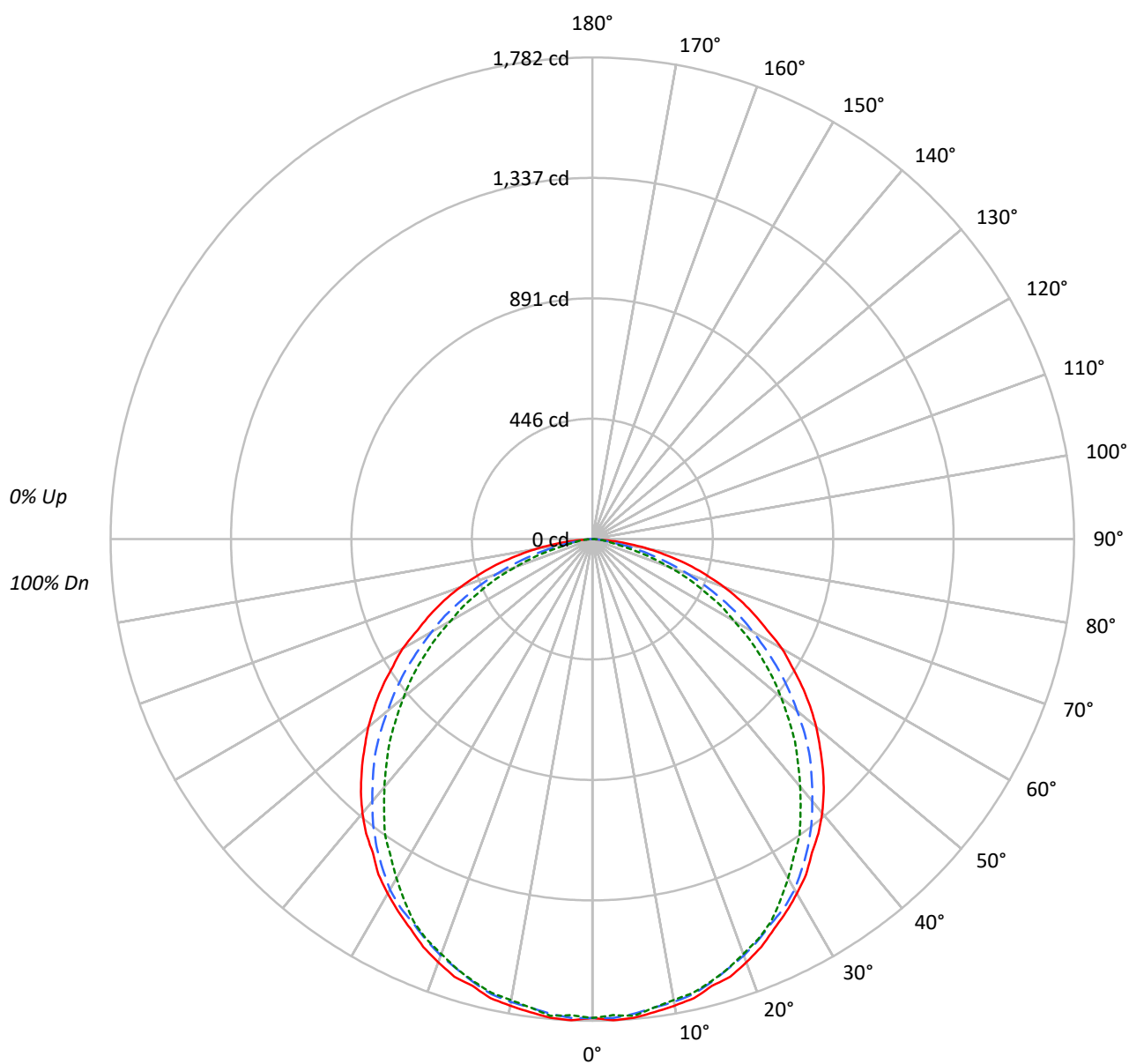
Lumens per Lamp: N/A
Luminaire Lumens: 4718.1 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	95	92	90	91	89	87	87	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	74	74	72
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	56	68	61	56	66	60	55	64	58	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	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	33	33	31
9	57	44	36	31	56	44	36	30	42	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	27	37	32	27	27	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4767	4767	4767
5°	4802	4762	4782
10°	4788	4751	4730
15°	4767	4729	4720
20°	4770	4695	4677
25°	4724	4655	4639
30°	4704	4652	4501
35°	4651	4568	4391
40°	4647	4447	4202
45°	4589	4332	4035
50°	4527	4138	3816
55°	4440	3945	3583
60°	4360	3690	3253
65°	4212	3386	2909
70°	4076	2947	2374
75°	3828	2326	1634
80°	3319	1406	981
85°	2214	1010	945

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4589 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.9	3.6
10°-20°	480.5	10.2
20°-30°	725.7	15.4
30°-40°	862.9	18.3
40°-50°	875.1	18.5
50°-60°	759.9	16.1
60°-70°	539.5	11.4
70°-80°	257.8	5.5
80°-90°	48.9	1.0
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°	1374.1	29.1
0°-40°	2237.0	47.4
0°-60°	3872.0	82.1
0°-90°	4718.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4718.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1771	1771	1771	1771	1771	
5°	1778	1771	1763	1767	1770	169
15°	1711	1715	1697	1695	1694	485
25°	1591	1589	1568	1574	1562	735
35°	1416	1414	1390	1343	1337	890
45°	1206	1195	1138	1078	1060	930
55°	946	918	841	791	764	846
65°	662	612	532	475	457	655
75°	368	301	224	177	157	386
85°	72	38	33	32	31	90
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1771.3	1771.3	1771.3	1771.3	1771.3
2.5°	1781.8	1775.5	1773.4	1780.8	1762.8
5°	1777.6	1771.3	1762.8	1767.1	1770.2
7.5°	1765.0	1759.7	1748.1	1757.6	1748.1
10°	1752.3	1747.0	1738.6	1741.7	1731.2
12.5°	1739.6	1727.0	1724.9	1727.0	1719.6
15°	1711.1	1715.4	1697.4	1695.3	1694.3
17.5°	1697.4	1686.9	1667.9	1669.0	1666.8
20°	1665.8	1653.1	1639.4	1637.3	1633.1
22.5°	1633.1	1618.3	1605.7	1612.0	1602.5
25°	1590.9	1588.8	1567.7	1574.0	1562.4
27.5°	1554.0	1546.6	1537.1	1523.4	1506.5
30°	1513.9	1506.5	1497.0	1461.1	1448.5
32.5°	1471.7	1463.2	1444.2	1402.0	1388.3
35°	1415.8	1413.6	1390.4	1343.0	1336.6
37.5°	1373.6	1350.4	1331.4	1282.8	1264.9
40°	1322.9	1310.3	1266.0	1219.5	1196.3
42.5°	1267.0	1252.2	1201.6	1152.0	1126.7
45°	1205.8	1195.3	1138.3	1078.2	1060.2
47.5°	1142.5	1133.0	1065.5	1007.5	984.3
50°	1081.3	1069.7	988.5	932.6	911.5
52.5°	1014.9	995.9	915.7	860.8	840.8
55°	946.3	917.8	840.8	791.2	763.8
57.5°	873.5	847.1	761.7	710.0	687.8
60°	810.2	773.3	685.7	633.0	604.5
62.5°	729.0	697.3	614.0	551.7	538.0
65°	661.5	611.9	531.7	474.7	456.8
67.5°	592.9	534.9	453.6	395.6	386.1
70°	518.0	457.9	374.5	317.5	301.7
72.5°	442.0	383.0	301.7	241.6	232.1
75°	368.2	300.7	223.7	177.2	157.2
77.5°	288.0	226.8	157.2	108.7	96.0
80°	214.2	153.0	90.7	64.4	63.3
82.5°	140.3	88.6	48.5	49.6	47.5
85°	71.7	38.0	32.7	31.6	30.6
87.5°	13.7	14.8	15.8	15.8	15.8
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)