

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: P1050257

Luminaire Tested: PTR-14-50-PL1-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050257
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737719)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: PTR-14-50-PL1-L840-UNV-STD-W
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

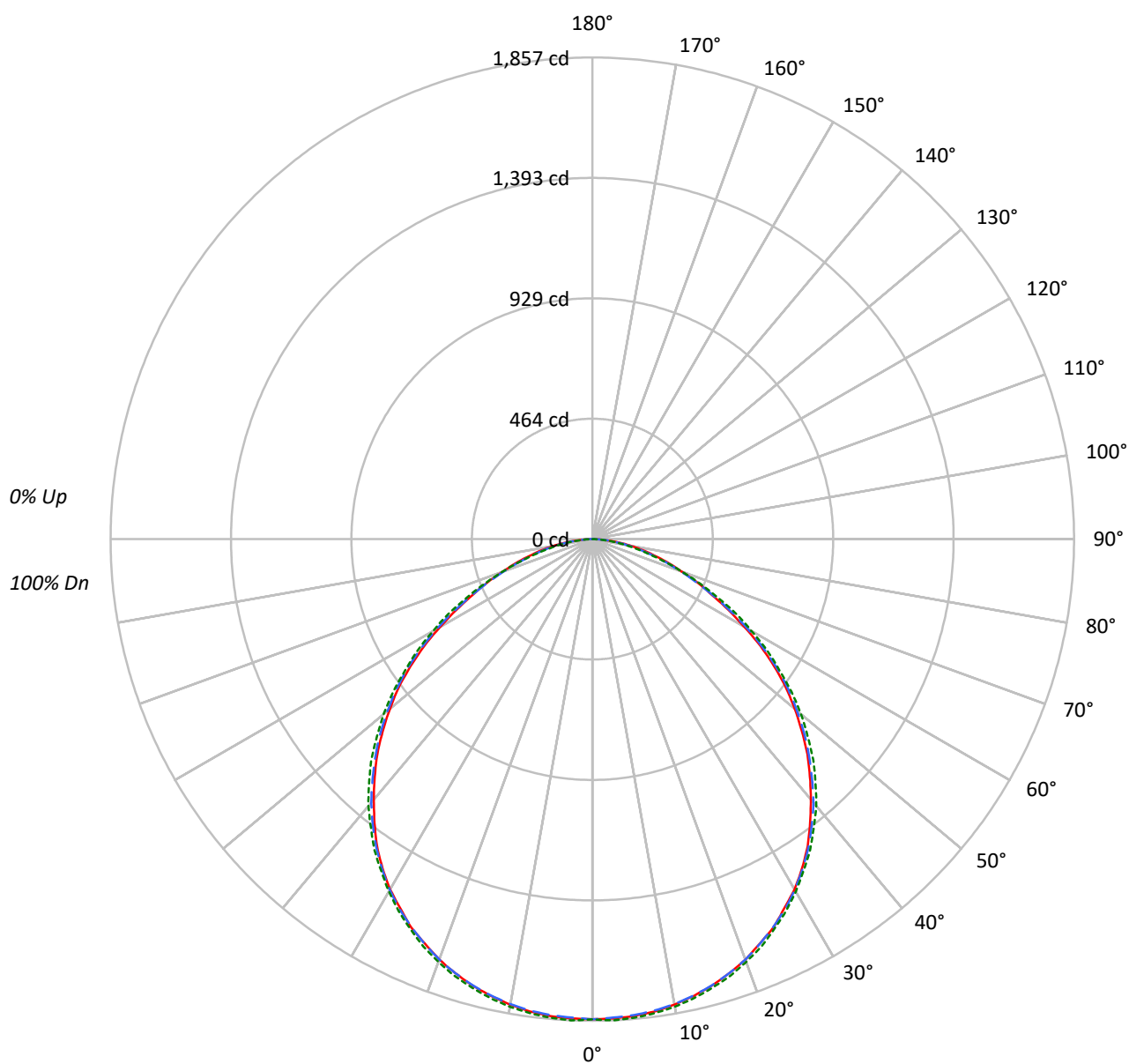
Lumens per Lamp: N/A
Luminaire Lumens: 4879.7 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	94	92	90	91	89	87	87	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	74	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	63	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	55	55	52
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	48	48	46
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	42	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	37	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	34	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	30	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4982	4982	4982
5°	4986	4976	5004
10°	4979	4974	5002
15°	4964	4962	4987
20°	4940	4940	4967
25°	4906	4899	4926
30°	4844	4851	4874
35°	4752	4770	4808
40°	4604	4658	4717
45°	4461	4497	4584
50°	4264	4310	4396
55°	4016	4081	4129
60°	3643	3721	3813
65°	3236	3270	3402
70°	2892	2833	2904
75°	2610	2459	2410
80°	2371	2202	1954
85°	2007	1825	1568

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4584 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.6	3.6
10°-20°	503.6	10.3
20°-30°	761.8	15.6
30°-40°	908.1	18.6
40°-50°	913.1	18.7
50°-60°	775.0	15.9
60°-70°	516.0	10.6
70°-80°	257.6	5.3
80°-90°	68.9	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°	1441.1	29.5
0°-40°	2349.1	48.1
0°-60°	4037.2	82.7
0°-90°	4879.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4879.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1851	1851	1851	1851	1851	
5°	1846	1846	1842	1850	1852	175
15°	1782	1784	1781	1789	1790	503
25°	1652	1652	1650	1658	1659	760
35°	1446	1448	1452	1462	1464	902
45°	1172	1174	1182	1198	1204	902
55°	856	862	870	878	880	763
65°	508	512	514	521	534	509
75°	251	248	236	231	232	270
85°	65	64	59	56	51	75
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1851.2	1851.2	1851.2	1851.2	1851.2
2.5°	1849.7	1851.2	1846.2	1855.2	1857.4
5°	1845.7	1846.2	1842.2	1850.5	1852.5
7.5°	1836.8	1837.5	1833.3	1842.2	1843.5
10°	1822.3	1823.8	1820.3	1828.5	1830.5
12.5°	1803.9	1805.9	1802.4	1811.3	1812.8
15°	1781.9	1783.9	1781.2	1788.7	1790.2
17.5°	1755.0	1756.5	1755.0	1762.0	1766.0
20°	1724.9	1724.9	1724.9	1731.1	1734.6
22.5°	1687.2	1690.7	1689.2	1697.4	1700.9
25°	1652.3	1652.3	1650.1	1657.8	1659.1
27.5°	1603.5	1609.0	1608.5	1615.2	1616.7
30°	1558.9	1560.4	1561.1	1565.9	1568.6
32.5°	1504.8	1506.0	1508.3	1515.0	1515.8
35°	1446.5	1448.0	1452.0	1462.2	1463.7
37.5°	1378.7	1386.2	1389.7	1400.6	1401.9
40°	1310.7	1315.4	1325.9	1337.3	1342.8
42.5°	1241.4	1246.9	1253.1	1268.8	1273.8
45°	1172.1	1174.1	1181.8	1197.5	1204.5
47.5°	1095.3	1101.6	1108.3	1122.0	1126.2
50°	1018.6	1025.3	1029.5	1041.7	1050.0
52.5°	941.1	947.3	952.0	959.5	967.7
55°	856.1	862.1	869.8	878.0	880.0
57.5°	769.6	776.3	781.3	790.0	799.0
60°	676.9	684.6	691.3	699.6	708.5
62.5°	590.7	593.9	600.9	614.6	627.5
65°	508.2	512.4	513.6	521.4	534.3
67.5°	439.6	439.6	433.4	436.1	450.6
70°	367.6	364.9	360.1	357.4	369.1
72.5°	309.3	305.8	295.6	290.8	297.1
75°	251.0	247.5	236.5	231.0	231.8
77.5°	201.6	196.1	187.2	177.7	175.7
80°	153.0	150.8	142.1	133.1	126.1
82.5°	108.4	103.7	98.7	93.2	87.7
85°	65.0	63.8	59.1	55.6	50.8
87.5°	26.7	26.7	25.4	23.9	22.7
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)