

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: P1050453

Luminaire Tested: PTR-14-50-PW1-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050453
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737743)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: PTR-14-50-PW1-L840-UNV-STD-W
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND RIPPLE LENS

Light Source:
Ballast/Driver: -

Summary

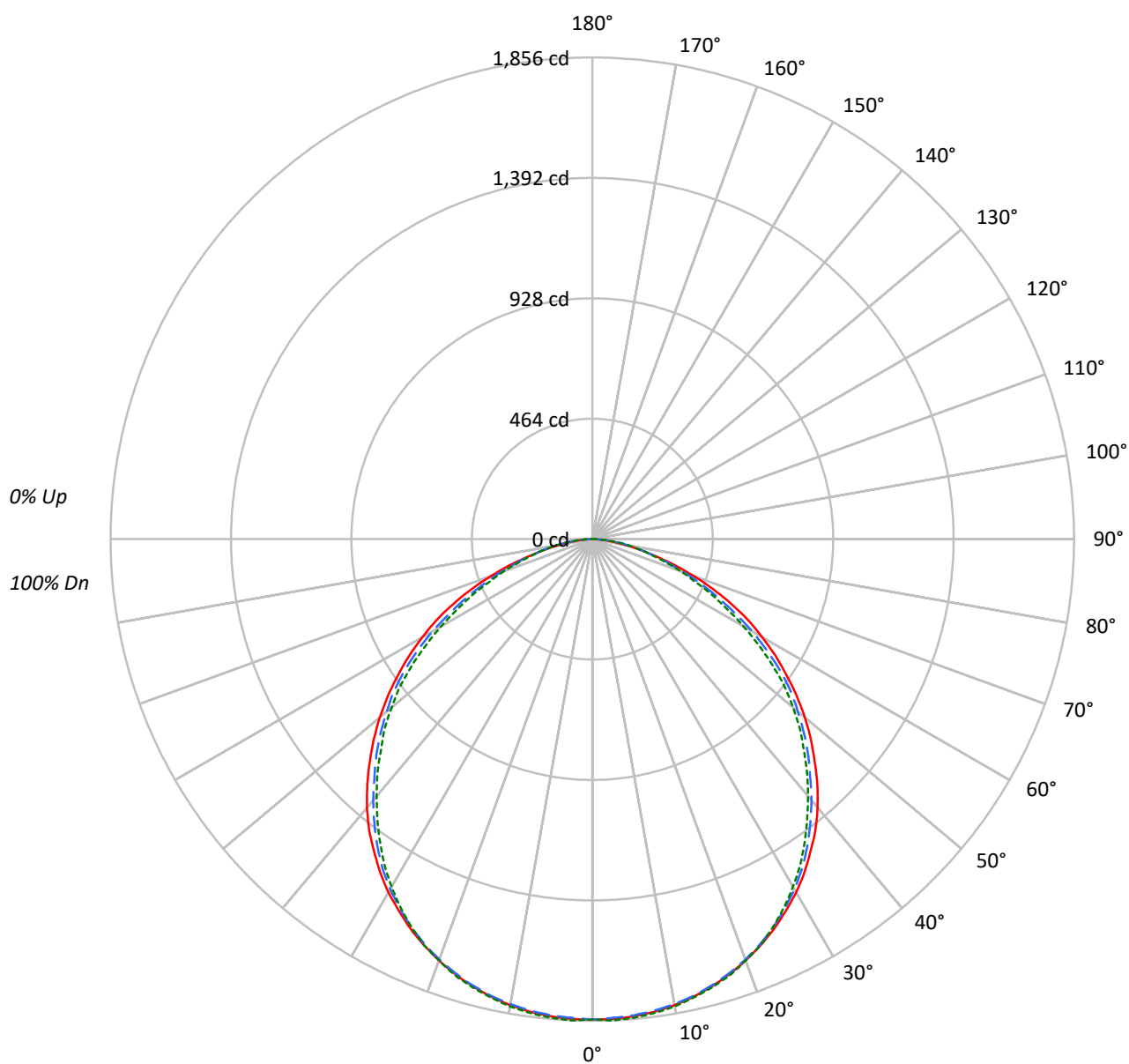
Lumens per Lamp: N/A
Luminaire Lumens: 4912.4 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	95	98	95	92	94	92	90	91	89	87	87	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	74	74	71
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	57	68	61	56	66	60	55	64	59	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	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	33	33	31
9	58	44	36	31	56	44	36	31	43	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	28	38	32	27	27	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4981	4981	4981
5°	4985	4975	5000
10°	4983	4972	4997
15°	4968	4960	4979
20°	4948	4936	4948
25°	4921	4900	4896
30°	4883	4840	4806
35°	4818	4745	4684
40°	4743	4614	4541
45°	4612	4476	4385
50°	4473	4327	4227
55°	4287	4142	3977
60°	4064	3824	3624
65°	3759	3415	3245
70°	3259	2972	2861
75°	2601	2544	2475
80°	1977	2210	2210
85°	1463	1886	1886

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4612 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.5	3.6
10°-20°	503.5	10.3
20°-30°	761.0	15.5
30°-40°	903.6	18.4
40°-50°	910.3	18.5
50°-60°	786.9	16.0
60°-70°	537.8	10.9
70°-80°	265.2	5.4
80°-90°	68.6	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°	1440.0	29.3
0°-40°	2343.6	47.7
0°-60°	4040.8	82.3
0°-90°	4912.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4912.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1851	1851	1851	1851	1851	
5°	1846	1846	1842	1849	1851	175
15°	1783	1785	1780	1787	1787	503
25°	1657	1656	1650	1652	1649	763
35°	1466	1462	1444	1431	1426	918
45°	1212	1199	1176	1162	1152	935
55°	914	911	883	857	848	817
65°	590	569	536	513	510	583
75°	250	248	245	245	238	273
85°	47	56	61	62	61	58
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1851.1	1851.1	1851.1	1851.1	1851.1
2.5°	1850.6	1851.1	1846.3	1854.5	1856.5
5°	1845.6	1846.3	1841.6	1849.1	1851.1
7.5°	1836.9	1838.1	1832.6	1840.1	1841.6
10°	1823.6	1824.4	1819.7	1827.1	1828.6
12.5°	1805.9	1806.4	1802.5	1809.2	1809.2
15°	1783.3	1785.3	1780.5	1786.8	1787.3
17.5°	1757.8	1758.6	1753.9	1760.6	1762.1
20°	1727.7	1727.7	1723.7	1729.2	1727.7
22.5°	1694.0	1694.0	1689.3	1692.0	1693.3
25°	1657.2	1655.7	1650.2	1651.7	1648.9
27.5°	1614.5	1614.5	1604.8	1604.8	1600.1
30°	1571.4	1567.9	1557.7	1551.5	1546.7
32.5°	1521.8	1517.1	1504.1	1493.2	1489.7
35°	1466.5	1461.5	1444.3	1431.3	1425.9
37.5°	1412.9	1401.9	1379.3	1366.3	1360.1
40°	1350.3	1336.6	1313.5	1295.5	1292.8
42.5°	1283.3	1272.3	1242.2	1229.0	1225.7
45°	1212.0	1198.8	1176.1	1162.4	1152.2
47.5°	1142.0	1132.3	1106.3	1089.9	1086.4
50°	1068.5	1060.2	1033.6	1015.9	1009.6
52.5°	992.4	987.0	964.3	941.6	934.1
55°	913.7	910.9	882.8	856.6	847.6
57.5°	836.2	832.7	797.5	767.4	759.2
60°	755.2	745.0	710.6	682.4	673.4
62.5°	678.4	656.5	619.3	597.4	587.2
65°	590.4	569.2	536.4	512.9	509.7
67.5°	504.2	478.8	453.4	438.9	427.9
70°	414.2	397.0	377.8	365.6	363.6
72.5°	330.5	318.3	308.6	301.1	294.8
75°	250.2	248.2	244.7	244.7	238.0
77.5°	183.9	188.7	191.4	190.7	192.2
80°	127.6	137.1	142.6	143.3	142.6
82.5°	81.0	92.0	100.9	102.2	103.7
85°	47.4	55.6	61.1	62.3	61.1
87.5°	21.2	26.7	28.2	29.4	28.2
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)