

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: P1050306

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

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050306
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-L840-UNV-STD-W
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

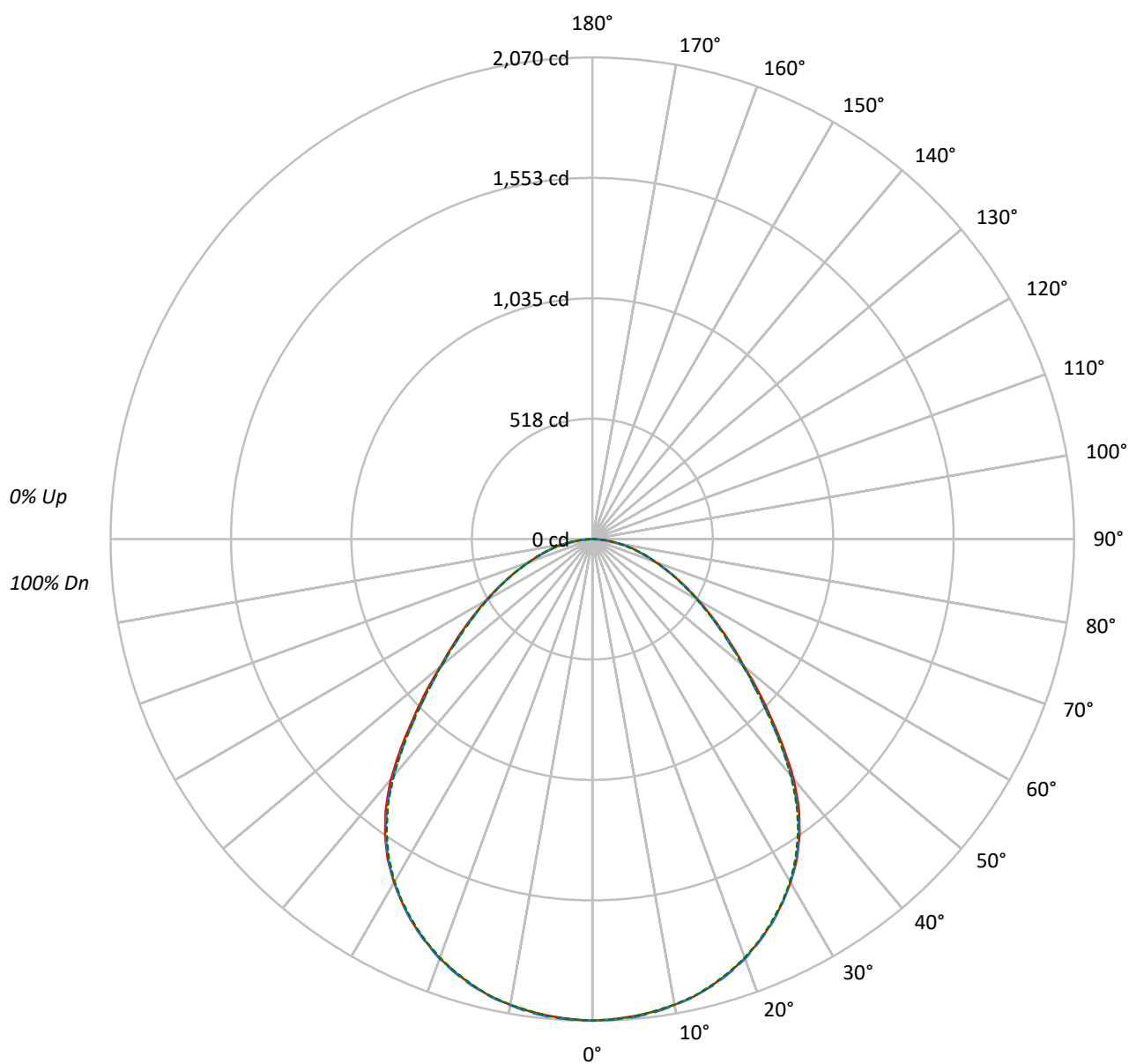
Lumens per Lamp: N/A
Luminaire Lumens: 4663.3 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1050306

CATALOG NUMBER: PTR-14-50-PLG-L840-UNV-STD-W

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°	5569	5569	5569
5°	5559	5571	5563
10°	5555	5559	5551
15°	5532	5541	5528
20°	5489	5497	5481
25°	5412	5417	5399
30°	5294	5294	5281
35°	5100	5086	5062
40°	4726	4675	4659
45°	4131	4064	4080
50°	3566	3523	3542
55°	3170	3122	3128
60°	2838	2799	2799
65°	2544	2525	2534
70°	2288	2265	2288
75°	2123	2092	2123
80°	1980	1957	1889
85°	1677	1677	1497

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4131 cd/sqm

TEST NUMBER: P1050306

CATALOG NUMBER: PTR-14-50-PLG-L840-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.9	4.2
10°-20°	560.7	12.0
20°-30°	838.9	18.0
30°-40°	961.1	20.6
40°-50°	831.3	17.8
50°-60°	601.6	12.9
60°-70°	396.3	8.5
70°-80°	215.7	4.6
80°-90°	61.8	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°	1595.5	34.2
0°-40°	2556.6	54.8
0°-60°	3989.5	85.6
0°-90°	4663.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4663.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2070	2070	2070	2070	2070	
5°	2058	2062	2062	2062	2059	196
15°	1986	1987	1989	1992	1984	560
25°	1823	1823	1824	1826	1818	838
35°	1552	1551	1548	1547	1541	964
45°	1085	1082	1068	1066	1072	840
55°	676	673	665	661	667	608
65°	400	402	397	394	398	399
75°	204	204	201	201	204	218
85°	54	54	54	56	48	63
90°	0	0	0	0	0	

TEST NUMBER: P1050306

CATALOG NUMBER: PTR-14-50-PLG-L840-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2069.5	2069.5	2069.5	2069.5	2069.5
2.5°	2065.1	2069.5	2068.1	2069.5	2065.1
5°	2057.8	2062.2	2062.2	2062.2	2059.3
7.5°	2047.5	2050.5	2051.9	2053.4	2046.0
10°	2032.8	2035.8	2034.3	2037.2	2031.4
12.5°	2013.7	2013.7	2015.2	2018.1	2012.3
15°	1985.8	1987.3	1988.8	1991.7	1984.4
17.5°	1953.5	1955.0	1956.5	1957.9	1952.0
20°	1916.8	1916.8	1919.7	1921.2	1913.9
22.5°	1871.3	1871.3	1874.2	1878.6	1869.8
25°	1822.8	1822.8	1824.3	1825.7	1818.4
27.5°	1765.5	1765.5	1767.0	1771.4	1762.6
30°	1703.8	1702.3	1703.8	1705.3	1699.4
32.5°	1634.8	1633.3	1631.8	1633.3	1626.0
35°	1552.5	1551.1	1548.1	1546.7	1540.8
37.5°	1457.1	1454.1	1448.2	1448.2	1442.4
40°	1345.4	1338.1	1330.7	1327.8	1326.3
42.5°	1216.2	1210.3	1200.0	1198.5	1198.5
45°	1085.4	1082.5	1067.8	1066.4	1072.2
47.5°	967.9	960.6	947.4	944.4	953.3
50°	851.9	853.4	841.6	837.2	846.0
52.5°	760.8	757.9	747.6	744.7	752.0
55°	675.7	672.7	665.4	661.0	666.8
57.5°	597.8	596.3	589.0	587.5	590.5
60°	527.3	525.8	520.0	518.5	520.0
62.5°	461.2	461.2	455.3	452.4	456.8
65°	399.5	402.5	396.6	393.6	398.0
67.5°	343.7	346.6	340.8	337.8	343.7
70°	290.8	293.8	287.9	284.9	290.8
72.5°	245.3	246.8	242.4	240.9	248.2
75°	204.2	204.2	201.2	201.2	204.2
77.5°	166.0	164.5	163.0	163.0	160.1
80°	127.8	126.3	126.3	126.3	121.9
82.5°	91.1	88.1	89.6	91.1	83.7
85°	54.3	54.3	54.3	55.8	48.5
87.5°	22.0	22.0	20.6	22.0	19.1
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)