

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: P1050305

Luminaire Tested: PTR-14-50-PLG-L835-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050305
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-L835-UNV-STD-W
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

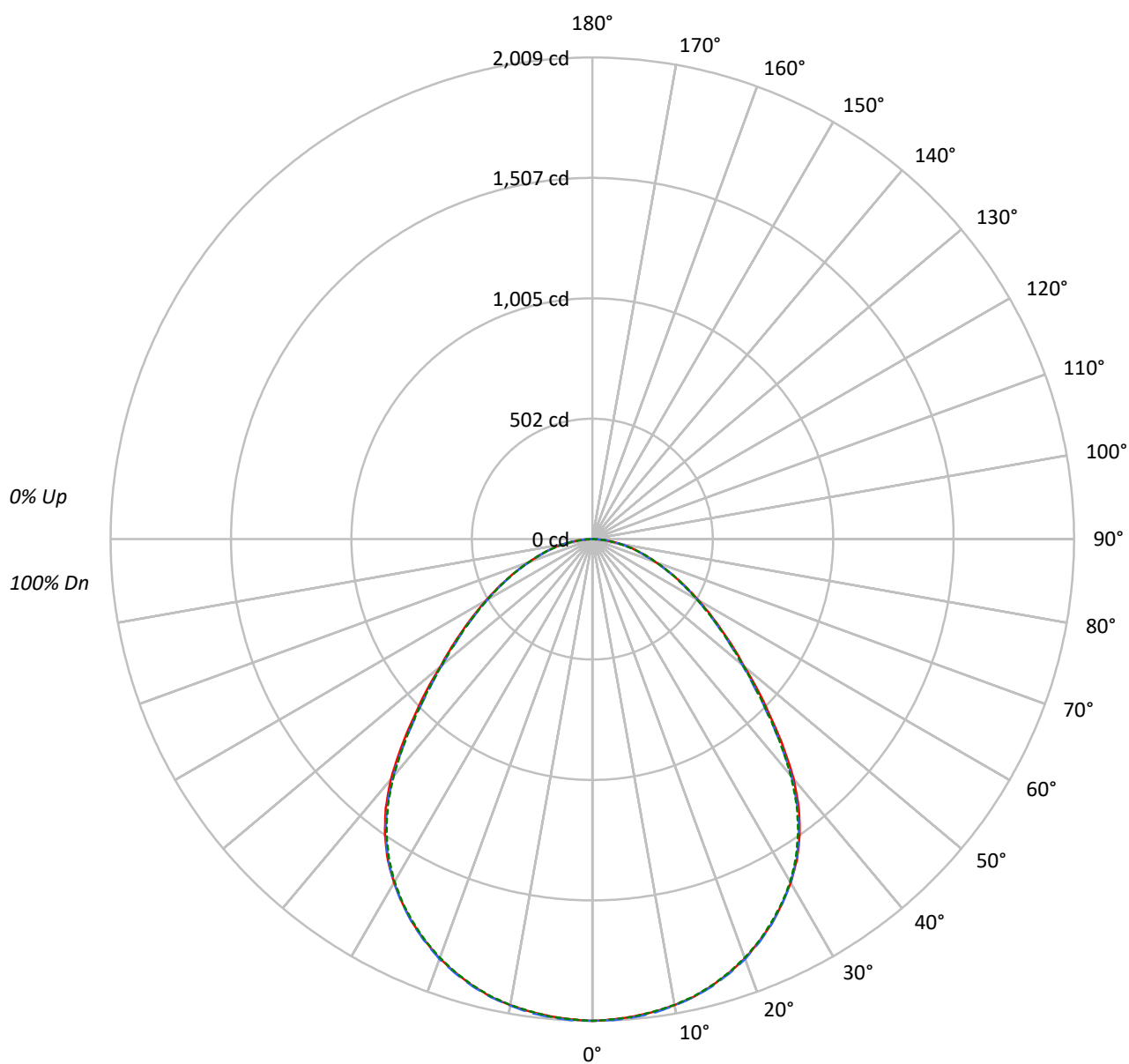
Lumens per Lamp: N/A
Luminaire Lumens: 4527.5 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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: P1050305

CATALOG NUMBER: PTR-14-50-PLG-L835-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1050305

CATALOG NUMBER: PTR-14-50-PLG-L835-UNV-STD-W

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5407	5407	5407
5°	5397	5408	5401
10°	5393	5397	5389
15°	5371	5379	5367
20°	5329	5337	5321
25°	5255	5259	5242
30°	5140	5140	5127
35°	4952	4937	4914
40°	4588	4539	4523
45°	4010	3945	3962
50°	3463	3421	3439
55°	3078	3031	3037
60°	2755	2717	2717
65°	2470	2451	2461
70°	2222	2199	2222
75°	2061	2032	2061
80°	1923	1900	1835
85°	1630	1630	1454

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4010 cd/sqm

TEST NUMBER: P1050305

CATALOG NUMBER: PTR-14-50-PLG-L835-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.2	4.2
10°-20°	544.3	12.0
20°-30°	814.5	18.0
30°-40°	933.1	20.6
40°-50°	807.0	17.8
50°-60°	584.1	12.9
60°-70°	384.7	8.5
70°-80°	209.4	4.6
80°-90°	60.0	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°	1549.0	34.2
0°-40°	2482.2	54.8
0°-60°	3873.3	85.6
0°-90°	4527.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4527.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2009	2009	2009	2009	2009	
5°	1998	2002	2002	2002	1999	190
15°	1928	1929	1931	1934	1927	544
25°	1770	1770	1771	1773	1765	814
35°	1507	1506	1503	1502	1496	936
45°	1054	1051	1037	1035	1041	816
55°	656	653	646	642	647	590
65°	388	391	385	382	386	387
75°	198	198	195	195	198	211
85°	53	53	53	54	47	61
90°	0	0	0	0	0	

TEST NUMBER: P1050305

CATALOG NUMBER: PTR-14-50-PLG-L835-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2009.3	2009.3	2009.3	2009.3	2009.3
2.5°	2005.0	2009.3	2007.8	2009.3	2005.0
5°	1997.9	2002.1	2002.1	2002.1	1999.3
7.5°	1987.9	1990.7	1992.2	1993.6	1986.5
10°	1973.6	1976.5	1975.0	1977.9	1972.2
12.5°	1955.1	1955.1	1956.5	1959.4	1953.7
15°	1928.0	1929.4	1930.8	1933.7	1926.6
17.5°	1896.6	1898.0	1899.5	1900.9	1895.2
20°	1861.0	1861.0	1863.8	1865.2	1858.1
22.5°	1816.8	1816.8	1819.6	1823.9	1815.3
25°	1769.7	1769.7	1771.1	1772.6	1765.4
27.5°	1714.1	1714.1	1715.5	1719.8	1711.2
30°	1654.2	1652.8	1654.2	1655.6	1649.9
32.5°	1587.2	1585.7	1584.3	1585.7	1578.6
35°	1507.3	1505.9	1503.0	1501.6	1495.9
37.5°	1414.6	1411.8	1406.1	1406.1	1400.4
40°	1306.2	1299.1	1292.0	1289.1	1287.7
42.5°	1180.8	1175.0	1165.1	1163.6	1163.6
45°	1053.8	1051.0	1036.7	1035.3	1041.0
47.5°	939.8	932.6	919.8	916.9	925.5
50°	827.1	828.5	817.1	812.8	821.4
52.5°	738.7	735.8	725.8	723.0	730.1
55°	656.0	653.1	646.0	641.7	647.4
57.5°	580.4	579.0	571.8	570.4	573.3
60°	511.9	510.5	504.8	503.4	504.8
62.5°	447.8	447.8	442.1	439.2	443.5
65°	387.9	390.7	385.0	382.2	386.5
67.5°	333.7	336.5	330.8	328.0	333.7
70°	282.4	285.2	279.5	276.6	282.4
72.5°	238.1	239.6	235.3	233.9	241.0
75°	198.2	198.2	195.4	195.4	198.2
77.5°	161.1	159.7	158.3	158.3	155.4
80°	124.1	122.6	122.6	122.6	118.4
82.5°	88.4	85.6	87.0	88.4	81.3
85°	52.8	52.8	52.8	54.2	47.1
87.5°	21.4	21.4	20.0	21.4	18.5
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)