

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: P1050300

Luminaire Tested: PTR-14-40-PLG-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050300
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-14-40-PLG-L850-UNV-STD-W
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

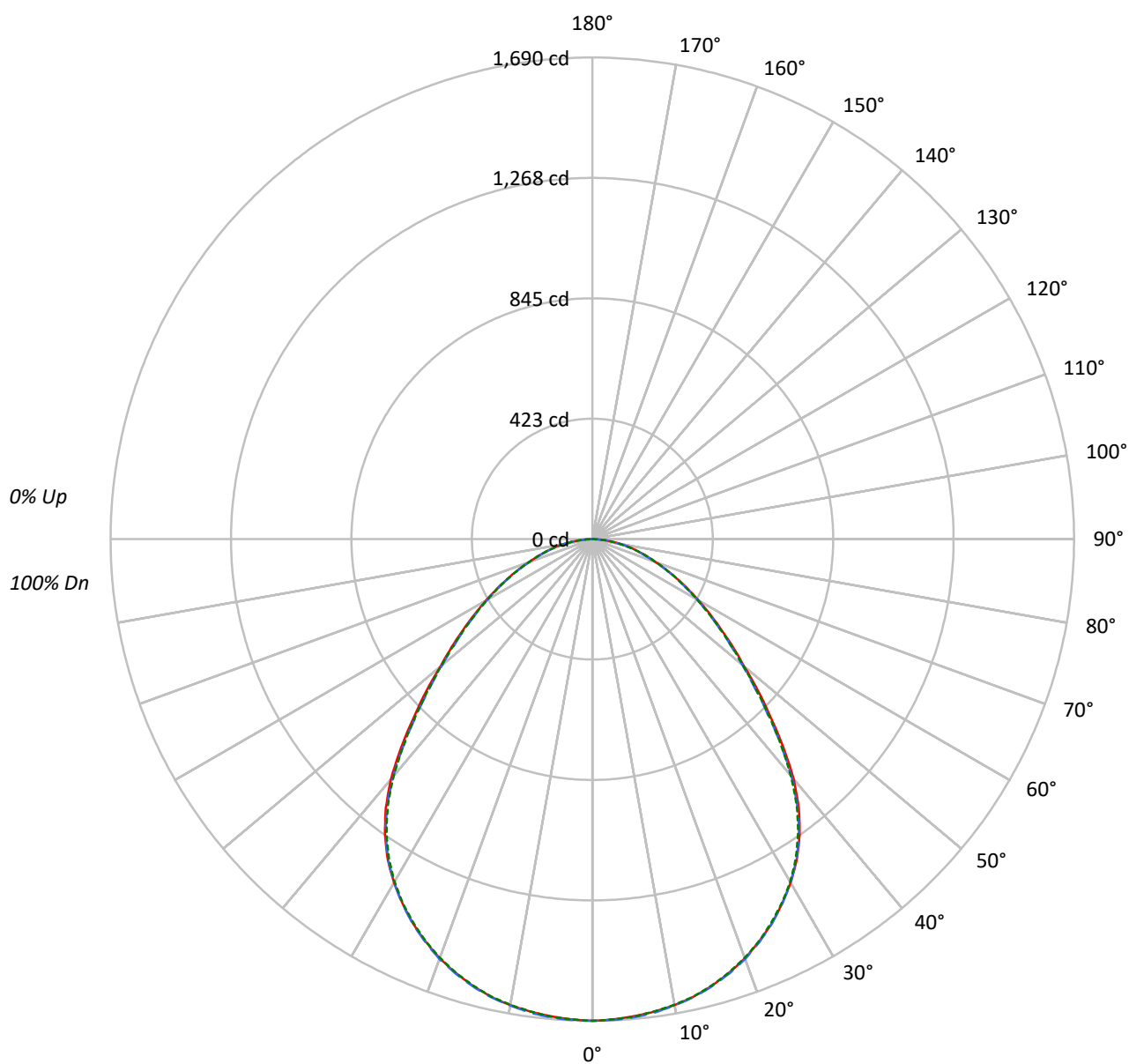
Lumens per Lamp: N/A
Luminaire Lumens: 3808.4 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 32.1
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: P1050300

CATALOG NUMBER: PTR-14-40-PLG-L850-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1050300

CATALOG NUMBER: PTR-14-40-PLG-L850-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	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°	4548	4548	4548
5°	4539	4549	4543
10°	4536	4539	4533
15°	4518	4525	4515
20°	4483	4490	4476
25°	4420	4423	4409
30°	4323	4323	4312
35°	4165	4153	4134
40°	3860	3818	3805
45°	3373	3319	3333
50°	2912	2877	2892
55°	2589	2549	2555
60°	2317	2285	2285
65°	2078	2062	2070
70°	1869	1850	1869
75°	1733	1708	1733
80°	1618	1599	1543
85°	1371	1371	1223

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3373 cd/sqm

TEST NUMBER: P1050300

CATALOG NUMBER: PTR-14-40-PLG-L850-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.0	4.2
10°-20°	457.9	12.0
20°-30°	685.1	18.0
30°-40°	784.9	20.6
40°-50°	678.9	17.8
50°-60°	491.3	12.9
60°-70°	323.6	8.5
70°-80°	176.1	4.6
80°-90°	50.5	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°	1303.0	34.2
0°-40°	2087.9	54.8
0°-60°	3258.1	85.6
0°-90°	3808.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3808.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1690	1690	1690	1690	1690	
5°	1680	1684	1684	1684	1682	160
15°	1622	1623	1624	1627	1621	457
25°	1489	1489	1490	1491	1485	685
35°	1268	1267	1264	1263	1258	788
45°	886	884	872	871	876	686
55°	552	549	543	540	545	497
65°	326	329	324	322	325	326
75°	167	167	164	164	167	178
85°	44	44	44	46	40	51
90°	0	0	0	0	0	

TEST NUMBER: P1050300

CATALOG NUMBER: PTR-14-40-PLG-L850-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1690.1	1690.1	1690.1	1690.1	1690.1
2.5°	1686.5	1690.1	1688.9	1690.1	1686.5
5°	1680.5	1684.1	1684.1	1684.1	1681.7
7.5°	1672.1	1674.5	1675.7	1676.9	1670.9
10°	1660.1	1662.5	1661.3	1663.7	1658.9
12.5°	1644.5	1644.5	1645.7	1648.1	1643.3
15°	1621.8	1623.0	1624.2	1626.6	1620.6
17.5°	1595.4	1596.6	1597.8	1599.0	1594.2
20°	1565.4	1565.4	1567.8	1569.0	1563.0
22.5°	1528.2	1528.2	1530.6	1534.2	1527.0
25°	1488.6	1488.6	1489.8	1491.0	1485.0
27.5°	1441.8	1441.8	1443.0	1446.6	1439.4
30°	1391.4	1390.2	1391.4	1392.6	1387.8
32.5°	1335.1	1333.9	1332.7	1333.9	1327.9
35°	1267.9	1266.7	1264.3	1263.1	1258.3
37.5°	1189.9	1187.5	1182.7	1182.7	1177.9
40°	1098.8	1092.8	1086.8	1084.4	1083.2
42.5°	993.2	988.4	980.0	978.8	978.8
45°	886.4	884.0	872.1	870.9	875.7
47.5°	790.5	784.5	773.7	771.3	778.5
50°	695.7	696.9	687.3	683.7	690.9
52.5°	621.4	619.0	610.6	608.2	614.2
55°	551.8	549.4	543.4	539.8	544.6
57.5°	488.2	487.0	481.0	479.8	482.2
60°	430.6	429.4	424.6	423.4	424.6
62.5°	376.7	376.7	371.9	369.5	373.1
65°	326.3	328.7	323.9	321.5	325.1
67.5°	280.7	283.1	278.3	275.9	280.7
70°	237.5	239.9	235.1	232.7	237.5
72.5°	200.3	201.5	197.9	196.7	202.7
75°	166.7	166.7	164.3	164.3	166.7
77.5°	135.5	134.3	133.1	133.1	130.7
80°	104.4	103.2	103.2	103.2	99.6
82.5°	74.4	72.0	73.2	74.4	68.4
85°	44.4	44.4	44.4	45.6	39.6
87.5°	18.0	18.0	16.8	18.0	15.6
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)