

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: P1050810

Luminaire Tested: 24PTR-45-PLG-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050810
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: 24PTR-45-PLG-L850-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

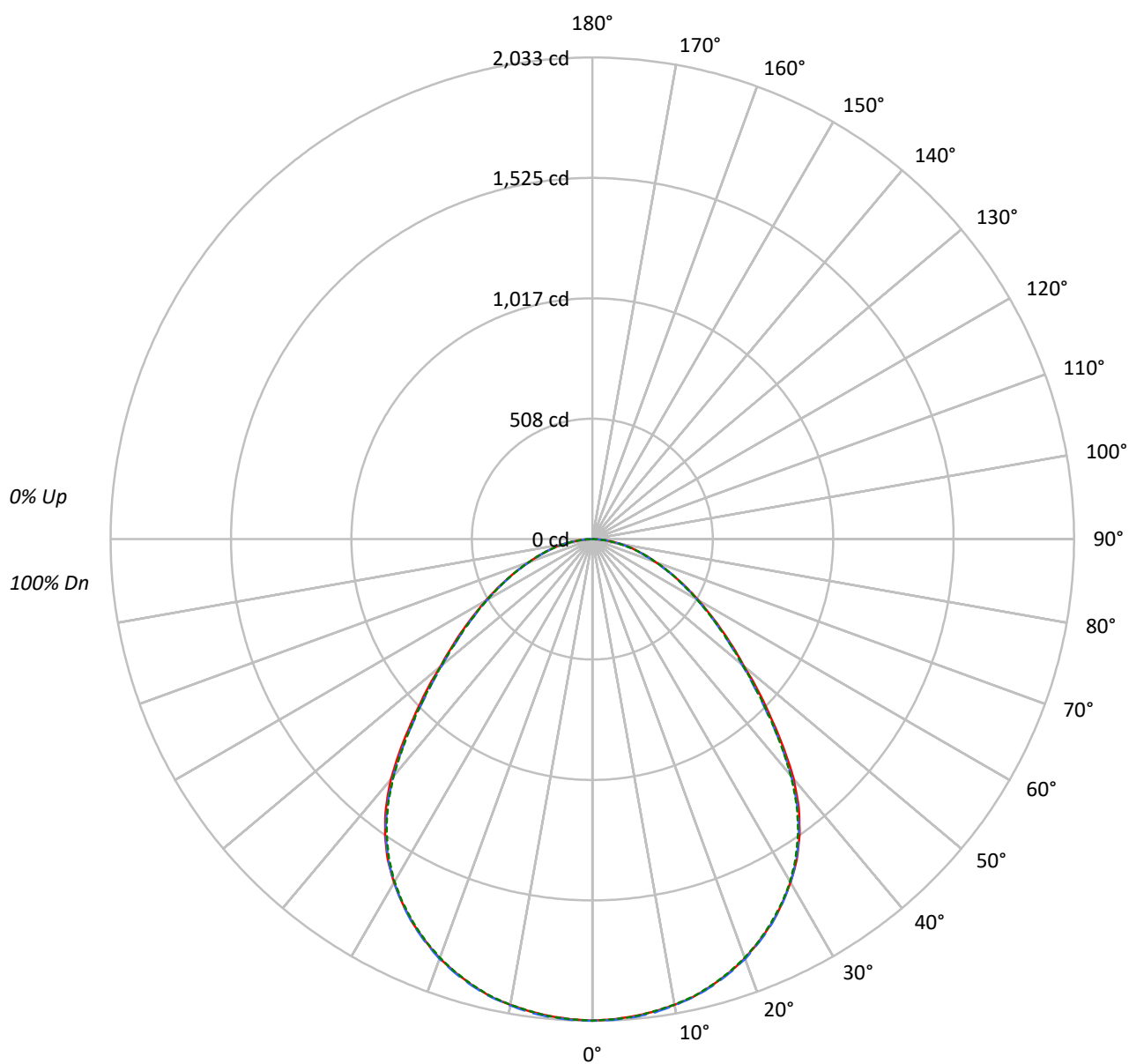
Lumens per Lamp: N/A
Luminaire Lumens: 4580.2 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37
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: P1050810

CATALOG NUMBER: 24PTR-45-PLG-L850-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1050810

CATALOG NUMBER: 24PTR-45-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°	2735	2735	2735
5°	2730	2736	2732
10°	2728	2730	2726
15°	2717	2721	2715
20°	2696	2700	2692
25°	2658	2660	2651
30°	2600	2600	2593
35°	2505	2498	2486
40°	2321	2296	2288
45°	2029	1996	2004
50°	1751	1730	1739
55°	1557	1533	1536
60°	1394	1374	1374
65°	1249	1240	1245
70°	1124	1113	1124
75°	1042	1027	1042
80°	972	962	927
85°	824	824	735

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2029 cd/sqm

TEST NUMBER: P1050810

CATALOG NUMBER: 24PTR-45-PLG-L850-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.4	4.2
10°-20°	550.7	12.0
20°-30°	824.0	18.0
30°-40°	944.0	20.6
40°-50°	816.5	17.8
50°-60°	590.9	12.9
60°-70°	389.2	8.5
70°-80°	211.8	4.6
80°-90°	60.7	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°	1567.1	34.2
0°-40°	2511.1	54.8
0°-60°	3918.5	85.6
0°-90°	4580.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4580.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2033	2033	2033	2033	2033	
5°	2021	2026	2026	2026	2023	192
15°	1950	1952	1953	1956	1949	550
25°	1790	1790	1792	1793	1786	823
35°	1525	1523	1521	1519	1513	947
45°	1066	1063	1049	1047	1053	826
55°	664	661	654	649	655	597
65°	392	395	390	387	391	392
75°	200	200	198	198	200	214
85°	53	53	53	55	48	62
90°	0	0	0	0	0	

TEST NUMBER: P1050810

CATALOG NUMBER: 24PTR-45-PLG-L850-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2032.7	2032.7	2032.7	2032.7	2032.7
2.5°	2028.4	2032.7	2031.3	2032.7	2028.4
5°	2021.2	2025.5	2025.5	2025.5	2022.6
7.5°	2011.1	2013.9	2015.4	2016.8	2009.6
10°	1996.6	1999.5	1998.1	2001.0	1995.2
12.5°	1977.9	1977.9	1979.3	1982.2	1976.4
15°	1950.5	1951.9	1953.4	1956.2	1949.0
17.5°	1918.7	1920.2	1921.6	1923.1	1917.3
20°	1882.7	1882.7	1885.6	1887.0	1879.8
22.5°	1837.9	1837.9	1840.8	1845.2	1836.5
25°	1790.3	1790.3	1791.8	1793.2	1786.0
27.5°	1734.1	1734.1	1735.5	1739.8	1731.2
30°	1673.5	1672.0	1673.5	1674.9	1669.2
32.5°	1605.7	1604.2	1602.8	1604.2	1597.0
35°	1524.9	1523.4	1520.6	1519.1	1513.3
37.5°	1431.1	1428.2	1422.5	1422.5	1416.7
40°	1321.5	1314.3	1307.0	1304.2	1302.7
42.5°	1194.5	1188.7	1178.7	1177.2	1177.2
45°	1066.1	1063.2	1048.8	1047.4	1053.1
47.5°	950.7	943.5	930.5	927.6	936.3
50°	836.7	838.2	826.6	822.3	831.0
52.5°	747.3	744.4	734.3	731.4	738.6
55°	663.6	660.7	653.5	649.2	655.0
57.5°	587.2	585.7	578.5	577.1	579.9
60°	517.9	516.5	510.7	509.3	510.7
62.5°	453.0	453.0	447.2	444.3	448.7
65°	392.4	395.3	389.5	386.6	391.0
67.5°	337.6	340.5	334.7	331.8	337.6
70°	285.6	288.5	282.8	279.9	285.6
72.5°	240.9	242.4	238.0	236.6	243.8
75°	200.5	200.5	197.6	197.6	200.5
77.5°	163.0	161.6	160.1	160.1	157.2
80°	125.5	124.1	124.1	124.1	119.7
82.5°	89.4	86.6	88.0	89.4	82.2
85°	53.4	53.4	53.4	54.8	47.6
87.5°	21.6	21.6	20.2	21.6	18.8
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)