

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: P1050583

Luminaire Tested: 24PTR-80-PB1-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050583
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737703)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-80-PB1-L850-UNV-STD-W
Description: 8000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

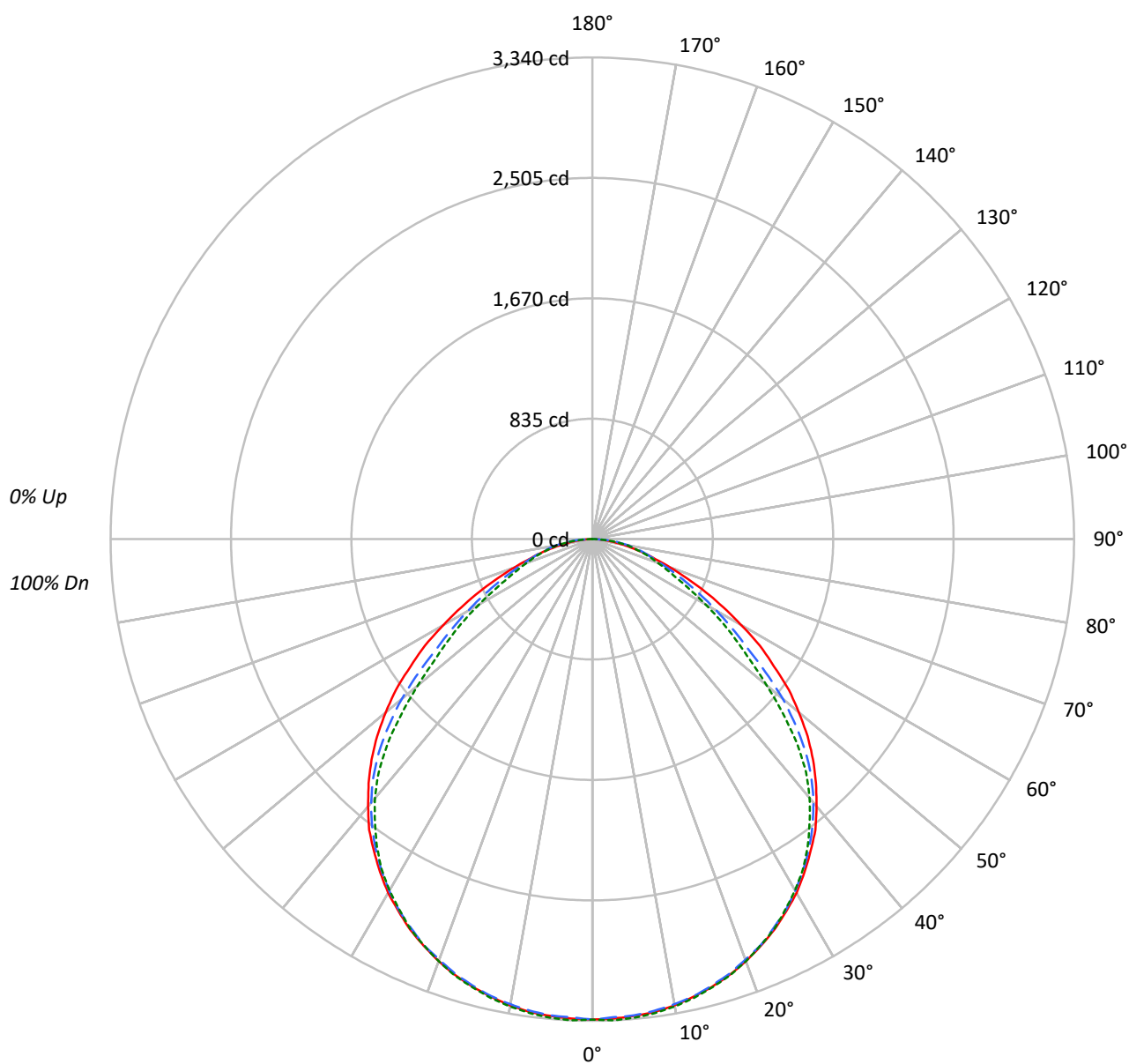
Lumens per Lamp: N/A
Luminaire Lumens: 8308.0 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 68
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: P1050583

CATALOG NUMBER: 24PTR-80-PB1-L850-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1050583

CATALOG NUMBER: 24PTR-80-PB1-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	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	88	88	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	75	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64	64	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	56	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	49	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	44	44	42
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	39	39	37
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	35	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	32	32	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	29	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4483	4483	4483
5°	4483	4478	4500
10°	4485	4474	4496
15°	4476	4464	4481
20°	4459	4442	4459
25°	4435	4417	4429
30°	4400	4374	4368
35°	4335	4302	4275
40°	4247	4190	4117
45°	4117	3984	3821
50°	3912	3611	3302
55°	3605	3067	2845
60°	3209	2680	2437
65°	2753	2323	2075
70°	2273	2048	1902
75°	1917	1959	1854
80°	1620	2000	1907
85°	1269	2025	1774

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4117 cd/sqm

TEST NUMBER: P1050583

CATALOG NUMBER: 24PTR-80-PB1-L850-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.9	3.8
10°-20°	906.5	10.9
20°-30°	1373.1	16.5
30°-40°	1636.2	19.7
40°-50°	1600.0	19.3
50°-60°	1210.2	14.6
60°-70°	743.5	8.9
70°-80°	396.1	4.8
80°-90°	126.4	1.5
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°	2595.5	31.2
0°-40°	4231.7	50.9
0°-60°	7042.0	84.8
0°-90°	8308.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8308.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3332	3332	3332	3332	3332	
5°	3319	3324	3316	3328	3332	316
15°	3213	3217	3205	3217	3217	907
25°	2988	2983	2975	2979	2983	1376
35°	2639	2635	2619	2606	2603	1651
45°	2164	2152	2094	2024	2008	1664
55°	1537	1459	1308	1234	1213	1376
65°	865	795	730	672	652	860
75°	369	373	377	365	357	395
85°	82	107	131	123	115	99
90°	0	0	0	0	0	

TEST NUMBER: P1050583

CATALOG NUMBER: 24PTR-80-PB1-L850-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3331.8	3331.8	3331.8	3331.8	3331.8
2.5°	3327.9	3331.8	3319.3	3336.1	3340.0
5°	3319.3	3323.6	3315.5	3327.9	3331.8
7.5°	3307.3	3307.3	3299.1	3311.2	3315.5
10°	3282.8	3282.8	3274.6	3286.6	3290.9
12.5°	3250.1	3250.1	3245.8	3253.9	3258.2
15°	3213.1	3216.9	3204.9	3216.9	3216.9
17.5°	3167.9	3164.0	3159.7	3167.9	3172.2
20°	3114.5	3114.5	3102.5	3110.7	3114.5
22.5°	3053.0	3053.0	3049.1	3053.0	3049.1
25°	2987.6	2983.3	2975.1	2979.4	2983.3
27.5°	2909.7	2909.7	2901.6	2901.6	2897.3
30°	2831.9	2827.6	2815.5	2807.3	2811.2
32.5°	2737.6	2733.3	2721.3	2713.1	2717.0
35°	2639.1	2635.3	2618.9	2606.4	2602.6
37.5°	2541.0	2528.5	2507.9	2491.5	2475.2
40°	2418.0	2405.5	2385.3	2348.3	2344.0
42.5°	2294.9	2282.9	2249.8	2205.0	2192.5
45°	2163.7	2151.7	2094.0	2024.3	2008.0
47.5°	2024.3	2004.1	1913.7	1827.7	1795.0
50°	1869.0	1832.0	1725.3	1614.7	1577.7
52.5°	1717.1	1651.7	1512.3	1413.8	1377.2
55°	1536.8	1459.0	1307.5	1233.5	1212.9
57.5°	1377.2	1270.5	1147.5	1073.9	1057.5
60°	1192.6	1094.1	996.0	930.2	905.7
62.5°	1024.4	938.4	856.6	799.0	770.6
65°	864.8	795.1	729.7	672.0	651.8
67.5°	709.0	672.0	618.7	573.9	561.5
70°	577.8	557.2	520.6	499.9	483.6
72.5°	459.1	467.2	442.7	434.5	422.1
75°	368.7	373.0	376.9	364.8	356.7
77.5°	278.8	299.0	315.4	307.2	299.0
80°	209.1	229.3	258.1	246.1	246.1
82.5°	143.3	168.2	192.7	184.6	180.3
85°	82.2	106.7	131.2	123.1	114.9
87.5°	32.7	53.4	57.2	57.2	53.4
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)