

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: P1051046

Luminaire Tested: 24PTR-100-PW1-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1051046
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737743)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-100-PW1-L850-UNV-STD-W
Description: 10000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND WAVES LENS

Light Source:
Ballast/Driver: -

Summary

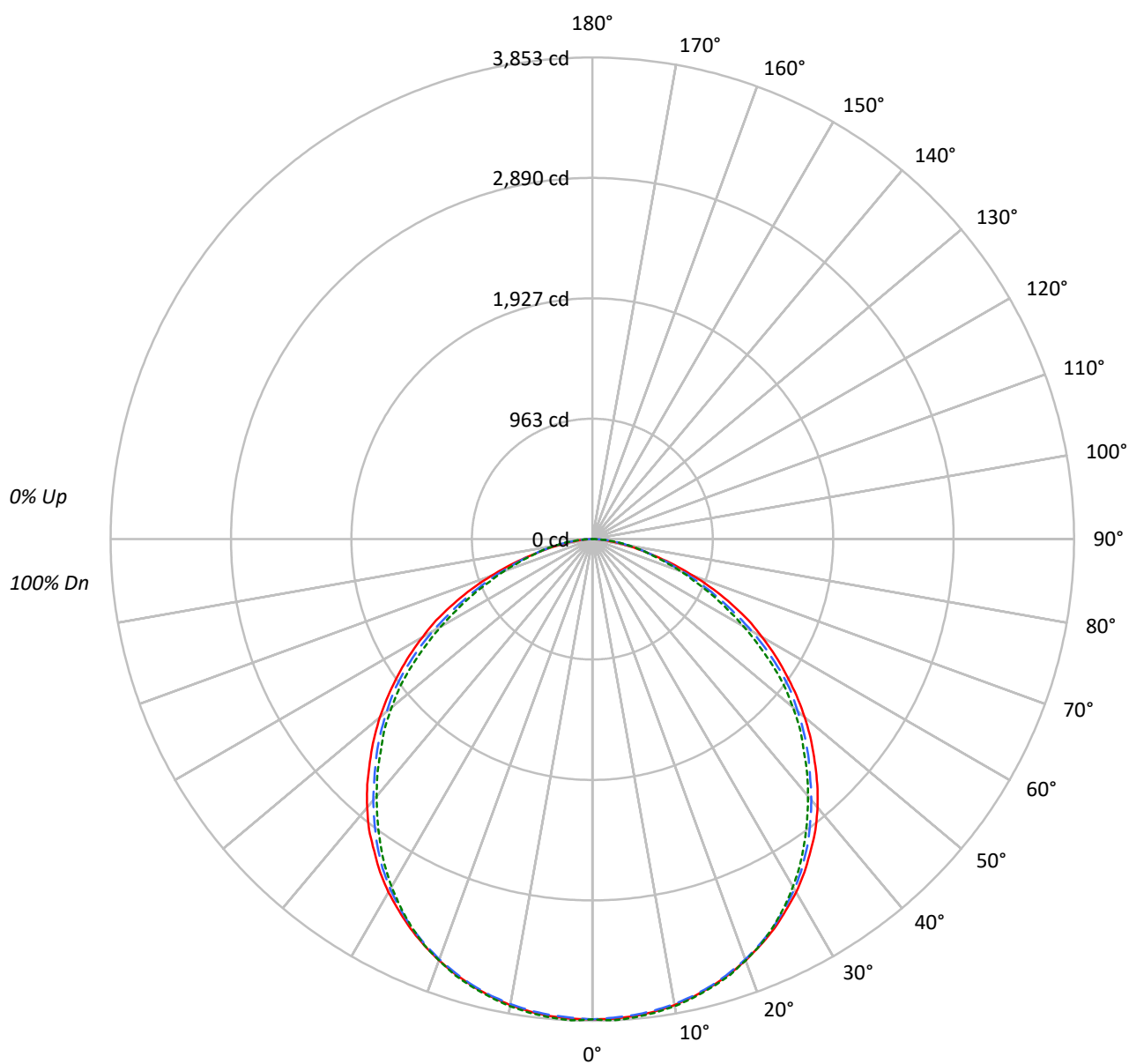
Lumens per Lamp: N/A
Luminaire Lumens: 10194.7 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 85
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

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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	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	87	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	74	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	63	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	54	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	42	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	37	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	33	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	30	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	27	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5169	5169	5169
5°	5173	5162	5188
10°	5171	5159	5185
15°	5155	5147	5167
20°	5134	5122	5134
25°	5106	5084	5080
30°	5067	5022	4987
35°	4999	4923	4860
40°	4922	4788	4712
45°	4786	4645	4550
50°	4641	4490	4386
55°	4448	4298	4126
60°	4217	3968	3761
65°	3901	3544	3368
70°	3382	3085	2969
75°	2700	2640	2568
80°	2052	2293	2293
85°	1518	1956	1956

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4786 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.3	3.6
10°-20°	1045.0	10.2
20°-30°	1579.2	15.5
30°-40°	1875.2	18.4
40°-50°	1889.2	18.5
50°-60°	1633.0	16.0
60°-70°	1116.1	10.9
70°-80°	550.3	5.4
80°-90°	142.3	1.4
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°	2988.5	29.3
0°-40°	4863.7	47.7
0°-60°	8385.9	82.3
0°-90°	10194.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10194.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3842	3842	3842	3842	3842	
5°	3830	3832	3822	3837	3842	364
15°	3701	3705	3695	3708	3709	1045
25°	3439	3436	3425	3428	3422	1584
35°	3043	3033	2997	2970	2959	1905
45°	2515	2488	2441	2412	2391	1941
55°	1896	1890	1832	1778	1759	1695
65°	1225	1181	1113	1064	1058	1210
75°	519	515	508	508	494	566
85°	98	115	127	129	127	120
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3841.5	3841.5	3841.5	3841.5	3841.5
2.5°	3840.5	3841.5	3831.7	3848.8	3852.9
5°	3830.2	3831.7	3821.9	3837.4	3841.5
7.5°	3812.1	3814.6	3803.3	3818.8	3821.9
10°	3784.6	3786.2	3776.4	3791.9	3795.0
12.5°	3747.9	3748.9	3740.7	3754.6	3754.6
15°	3700.8	3705.0	3695.2	3708.1	3709.1
17.5°	3648.1	3649.6	3639.8	3653.8	3656.9
20°	3585.5	3585.5	3577.2	3588.6	3585.5
22.5°	3515.7	3515.7	3505.8	3511.5	3514.1
25°	3439.1	3436.0	3424.6	3427.7	3422.1
27.5°	3350.7	3350.7	3330.5	3330.5	3320.7
30°	3261.2	3254.0	3232.7	3219.8	3210.0
32.5°	3158.3	3148.4	3121.5	3098.8	3091.5
35°	3043.4	3033.1	2997.4	2970.5	2959.1
37.5°	2932.2	2909.5	2862.4	2835.5	2822.6
40°	2802.4	2774.0	2725.8	2688.6	2682.9
42.5°	2663.3	2640.5	2577.9	2550.5	2543.8
45°	2515.3	2487.9	2440.9	2412.4	2391.2
47.5°	2370.0	2349.8	2296.0	2261.9	2254.6
50°	2217.4	2200.3	2145.0	2108.3	2095.3
52.5°	2059.6	2048.3	2001.2	1954.1	1938.6
55°	1896.2	1890.5	1832.1	1777.8	1759.1
57.5°	1735.3	1728.1	1655.2	1592.6	1575.5
60°	1567.2	1546.0	1474.6	1416.2	1397.6
62.5°	1407.9	1362.4	1285.3	1239.8	1218.6
65°	1225.3	1181.4	1113.1	1064.5	1057.8
67.5°	1046.4	993.6	940.9	910.9	888.1
70°	859.7	824.0	784.1	758.8	754.7
72.5°	685.9	660.5	640.3	624.8	611.9
75°	519.3	515.2	507.9	507.9	494.0
77.5°	381.7	391.5	397.2	395.7	398.8
80°	264.8	284.5	295.9	297.4	295.9
82.5°	168.1	190.9	209.5	212.1	215.2
85°	98.3	115.3	126.7	129.3	126.7
87.5°	44.0	55.3	58.4	61.0	58.4
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)