

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: P1050705

Luminaire Tested: 24PTR-100-PL1-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737719)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-100-PL1-L830-UNV-STD-W
Description: 10000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

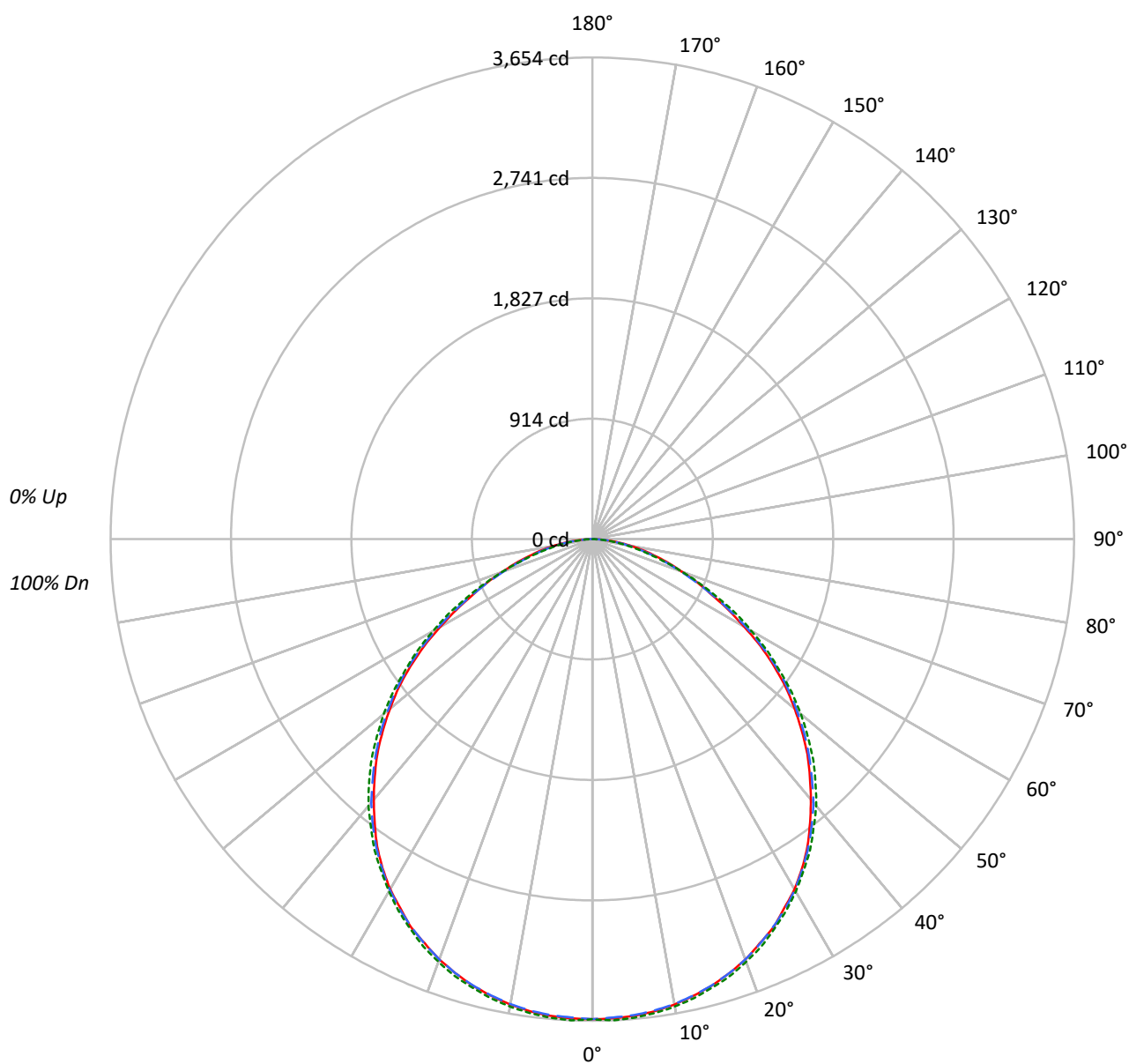
Lumens per Lamp: N/A
Luminaire Lumens: 9600.1 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	96	98	95	93	94	92	90	91	89	87	87	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	74	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	63	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	55	55	52
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	48	48	46
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	42	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	37	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	34	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	30	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4900	4900	4900
5°	4904	4895	4922
10°	4898	4893	4920
15°	4883	4881	4906
20°	4859	4859	4886
25°	4826	4819	4846
30°	4765	4772	4795
35°	4674	4692	4730
40°	4529	4581	4640
45°	4388	4424	4509
50°	4195	4240	4324
55°	3951	4014	4061
60°	3584	3660	3751
65°	3183	3217	3347
70°	2845	2787	2856
75°	2567	2419	2371
80°	2332	2166	1922
85°	1976	1794	1544

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4509 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.5	3.6
10°-20°	990.8	10.3
20°-30°	1498.8	15.6
30°-40°	1786.5	18.6
40°-50°	1796.4	18.7
50°-60°	1524.6	15.9
60°-70°	1015.1	10.6
70°-80°	506.9	5.3
80°-90°	135.6	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°	2835.1	29.5
0°-40°	4621.5	48.1
0°-60°	7942.5	82.7
0°-90°	9600.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9600.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3642	3642	3642	3642	3642	
5°	3631	3632	3624	3640	3644	345
15°	3506	3510	3504	3519	3522	989
25°	3251	3251	3246	3262	3264	1495
35°	2846	2849	2856	2877	2880	1775
45°	2306	2310	2325	2356	2370	1774
55°	1684	1696	1711	1727	1731	1501
65°	1000	1008	1010	1026	1051	1002
75°	494	487	465	454	456	530
85°	128	126	116	109	100	148
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3642.0	3642.0	3642.0	3642.0	3642.0
2.5°	3639.0	3642.0	3632.2	3649.8	3654.2
5°	3631.2	3632.2	3624.3	3640.5	3644.4
7.5°	3613.5	3615.0	3606.7	3624.3	3626.8
10°	3585.1	3588.0	3581.2	3597.4	3601.3
12.5°	3548.8	3552.7	3545.9	3563.5	3566.5
15°	3505.7	3509.6	3504.2	3518.9	3521.9
17.5°	3452.7	3455.7	3452.7	3466.4	3474.3
20°	3393.4	3393.4	3393.4	3405.7	3412.5
22.5°	3319.4	3326.2	3323.3	3339.5	3346.3
25°	3250.7	3250.7	3246.3	3261.5	3264.0
27.5°	3154.6	3165.4	3164.4	3177.7	3180.6
30°	3066.9	3069.8	3071.3	3080.6	3086.0
32.5°	2960.5	2962.9	2967.3	2980.6	2982.0
35°	2845.7	2848.7	2856.5	2876.6	2879.6
37.5°	2712.4	2727.1	2733.9	2755.5	2758.0
40°	2578.5	2587.8	2608.4	2631.0	2641.8
42.5°	2442.2	2453.0	2465.2	2496.1	2505.9
45°	2305.9	2309.8	2325.0	2355.9	2369.6
47.5°	2154.9	2167.1	2180.4	2207.3	2215.7
50°	2003.9	2017.1	2025.4	2049.5	2065.7
52.5°	1851.4	1863.6	1873.0	1887.7	1903.9
55°	1684.2	1696.0	1711.2	1727.3	1731.3
57.5°	1514.1	1527.3	1537.1	1554.3	1571.9
60°	1331.7	1346.9	1360.1	1376.3	1393.9
62.5°	1162.0	1168.4	1182.1	1209.1	1234.6
65°	999.7	1008.1	1010.5	1025.7	1051.2
67.5°	864.9	864.9	852.6	858.0	886.5
70°	723.2	717.8	708.5	703.1	726.1
72.5°	608.5	601.6	581.5	572.2	584.4
75°	493.7	486.9	465.3	454.5	456.0
77.5°	396.7	385.9	368.2	349.6	345.7
80°	301.0	296.6	279.5	261.8	248.1
82.5°	213.3	204.0	194.2	183.4	172.6
85°	128.0	125.5	116.2	109.3	100.0
87.5°	52.5	52.5	50.0	47.1	44.6
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)