

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: P1051013

Luminaire Tested: 24PTR-100-PW1-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1051013
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-L830-UNV-STD-W
Description: 10000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND WAVES LENS

Light Source:
Ballast/Driver: -

Summary

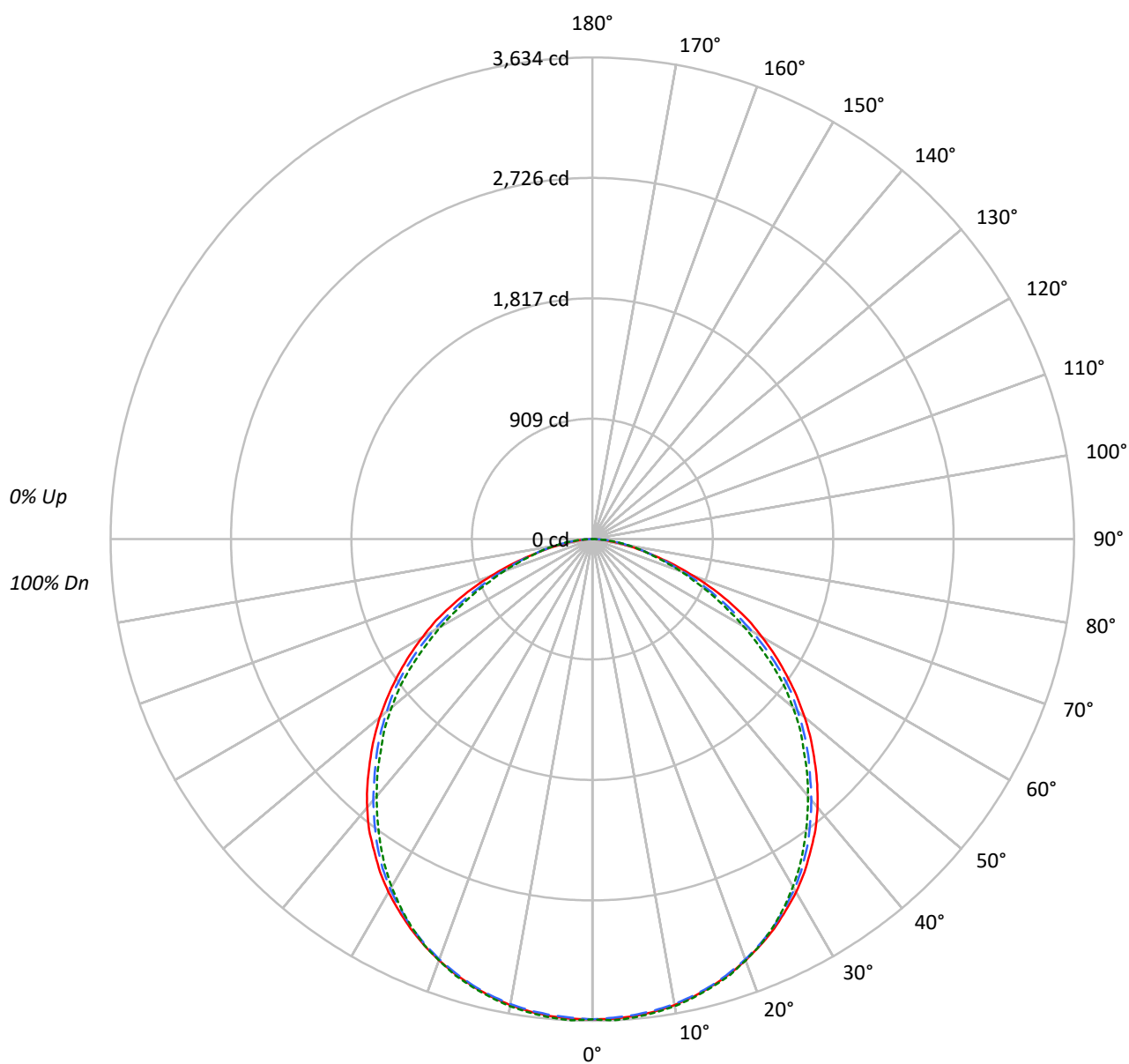
Lumens per Lamp: N/A
Luminaire Lumens: 9614.6 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1051013

CATALOG NUMBER: 24PTR-100-PW1-L830-UNV-STD-W

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°	4875	4875	4875
5°	4879	4868	4893
10°	4877	4866	4890
15°	4862	4854	4873
20°	4842	4831	4842
25°	4815	4795	4791
30°	4778	4737	4703
35°	4715	4643	4584
40°	4642	4515	4444
45°	4514	4380	4291
50°	4377	4234	4136
55°	4195	4053	3892
60°	3978	3742	3547
65°	3679	3342	3176
70°	3189	2909	2800
75°	2546	2490	2422
80°	1936	2162	2162
85°	1431	1845	1845

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4514 cd/sqm

TEST NUMBER: P1051013

CATALOG NUMBER: 24PTR-100-PW1-L830-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.6	3.6
10°-20°	985.5	10.2
20°-30°	1489.4	15.5
30°-40°	1768.5	18.4
40°-50°	1781.7	18.5
50°-60°	1540.1	16.0
60°-70°	1052.6	10.9
70°-80°	519.0	5.4
80°-90°	134.2	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°	2818.5	29.3
0°-40°	4587.0	47.7
0°-60°	7908.8	82.3
0°-90°	9614.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9614.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3623	3623	3623	3623	3623	
5°	3612	3614	3604	3619	3623	343
15°	3490	3494	3485	3497	3498	985
25°	3243	3240	3230	3233	3227	1494
35°	2870	2860	2827	2802	2791	1797
45°	2372	2346	2302	2275	2255	1831
55°	1788	1783	1728	1677	1659	1599
65°	1156	1114	1050	1004	998	1141
75°	490	486	479	479	466	534
85°	93	109	120	122	120	114
90°	0	0	0	0	0	

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CATALOG NUMBER: 24PTR-100-PW1-L830-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3623.0	3623.0	3623.0	3623.0	3623.0
2.5°	3622.0	3623.0	3613.7	3629.8	3633.7
5°	3612.2	3613.7	3604.4	3619.1	3623.0
7.5°	3595.2	3597.6	3586.9	3601.5	3604.4
10°	3569.3	3570.8	3561.5	3576.1	3579.1
12.5°	3534.7	3535.6	3527.8	3541.0	3541.0
15°	3490.3	3494.2	3484.9	3497.1	3498.1
17.5°	3440.5	3442.0	3432.7	3445.9	3448.8
20°	3381.5	3381.5	3373.7	3384.4	3381.5
22.5°	3315.6	3315.6	3306.4	3311.7	3314.2
25°	3243.4	3240.5	3229.8	3232.7	3227.3
27.5°	3160.0	3160.0	3141.0	3141.0	3131.7
30°	3075.6	3068.8	3048.8	3036.6	3027.3
32.5°	2978.6	2969.3	2943.9	2922.5	2915.6
35°	2870.3	2860.5	2826.9	2801.5	2790.8
37.5°	2765.4	2743.9	2699.5	2674.2	2662.0
40°	2642.9	2616.1	2570.8	2535.6	2530.3
42.5°	2511.7	2490.3	2431.2	2405.4	2399.0
45°	2372.2	2346.4	2302.0	2275.1	2255.1
47.5°	2235.1	2216.1	2165.4	2133.2	2126.4
50°	2091.2	2075.1	2022.9	1988.3	1976.1
52.5°	1942.5	1931.7	1887.3	1842.9	1828.3
55°	1788.3	1782.9	1727.8	1676.6	1659.0
57.5°	1636.6	1629.8	1561.0	1502.0	1485.9
60°	1478.1	1458.1	1390.7	1335.6	1318.1
62.5°	1327.8	1284.9	1212.2	1169.3	1149.3
65°	1155.6	1114.2	1049.8	1003.9	997.6
67.5°	986.8	937.1	887.3	859.0	837.6
70°	810.7	777.1	739.5	715.6	711.7
72.5°	646.8	622.9	603.9	589.3	577.1
75°	489.8	485.9	479.0	479.0	465.9
77.5°	360.0	369.3	374.6	373.2	376.1
80°	249.8	268.3	279.0	280.5	279.0
82.5°	158.5	180.0	197.6	200.0	202.9
85°	92.7	108.8	119.5	122.0	119.5
87.5°	41.5	52.2	55.1	57.6	55.1
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)