

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: P1050551

Luminaire Tested: 24PTR-100-PB1-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050551
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-100-PB1-L830-UNV-STD-W
Description: 10000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

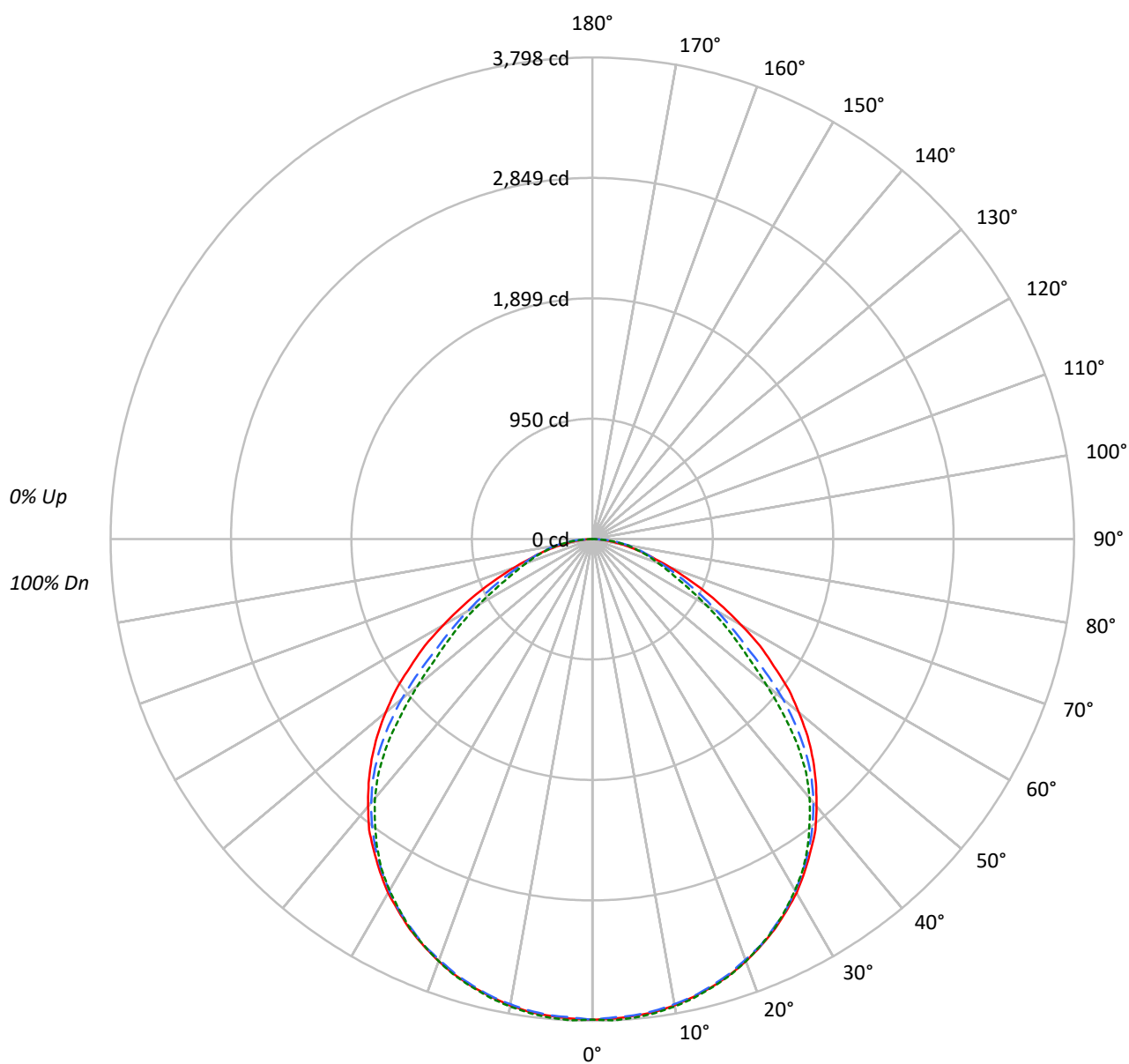
Lumens per Lamp: N/A
Luminaire Lumens: 9447.8 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	5098	5098	5098
5°	5098	5092	5117
10°	5100	5088	5113
15°	5090	5077	5096
20°	5071	5052	5071
25°	5044	5023	5037
30°	5003	4974	4967
35°	4930	4892	4861
40°	4830	4764	4682
45°	4682	4531	4345
50°	4449	4107	3755
55°	4100	3488	3235
60°	3650	3048	2771
65°	3131	2642	2360
70°	2585	2329	2163
75°	2180	2228	2109
80°	1843	2275	2169
85°	1443	2303	2016

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4682 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.3	3.8
10°-20°	1030.9	10.9
20°-30°	1561.5	16.5
30°-40°	1860.7	19.7
40°-50°	1819.5	19.3
50°-60°	1376.3	14.6
60°-70°	845.5	8.9
70°-80°	450.5	4.8
80°-90°	143.7	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°	2951.6	31.2
0°-40°	4812.3	50.9
0°-60°	8008.0	84.8
0°-90°	9447.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9447.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3789	3789	3789	3789	3789	
5°	3775	3780	3770	3784	3789	359
15°	3654	3658	3645	3658	3658	1031
25°	3398	3393	3383	3388	3393	1565
35°	3001	2997	2978	2964	2960	1877
45°	2460	2447	2381	2302	2283	1893
55°	1748	1659	1487	1403	1379	1565
65°	983	904	830	764	741	979
75°	419	424	429	415	406	450
85°	94	121	149	140	131	112
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3788.9	3788.9	3788.9	3788.9	3788.9
2.5°	3784.5	3788.9	3774.7	3793.8	3798.2
5°	3774.7	3779.6	3770.3	3784.5	3788.9
7.5°	3761.0	3761.0	3751.7	3765.4	3770.3
10°	3733.1	3733.1	3723.8	3737.5	3742.4
12.5°	3695.9	3695.9	3691.0	3700.3	3705.2
15°	3653.9	3658.3	3644.6	3658.3	3658.3
17.5°	3602.5	3598.1	3593.2	3602.5	3607.4
20°	3541.8	3541.8	3528.1	3537.4	3541.8
22.5°	3471.9	3471.9	3467.4	3471.9	3467.4
25°	3397.5	3392.6	3383.3	3388.2	3392.6
27.5°	3308.9	3308.9	3299.6	3299.6	3294.7
30°	3220.4	3215.5	3201.8	3192.5	3196.9
32.5°	3113.2	3108.3	3094.6	3085.3	3089.7
35°	3001.2	2996.8	2978.2	2964.0	2959.6
37.5°	2889.6	2875.4	2851.9	2833.4	2814.8
40°	2749.7	2735.5	2712.5	2670.4	2665.5
42.5°	2609.8	2596.1	2558.4	2507.5	2493.3
45°	2460.5	2446.8	2381.3	2302.0	2283.4
47.5°	2302.0	2279.0	2176.3	2078.4	2041.2
50°	2125.4	2083.3	1962.0	1836.2	1794.1
52.5°	1952.7	1878.3	1719.8	1607.7	1566.1
55°	1747.7	1659.1	1486.9	1402.7	1379.2
57.5°	1566.1	1444.8	1304.9	1221.2	1202.6
60°	1356.3	1244.2	1132.7	1057.8	1029.9
62.5°	1164.9	1067.1	974.1	908.6	876.3
65°	983.4	904.2	829.8	764.2	741.2
67.5°	806.3	764.2	703.6	652.7	638.5
70°	657.1	633.6	592.0	568.5	549.9
72.5°	522.0	531.3	503.5	494.2	480.0
75°	419.3	424.2	428.6	414.9	405.6
77.5°	317.0	340.0	358.6	349.3	340.0
80°	237.8	260.8	293.6	279.9	279.9
82.5°	162.9	191.3	219.2	209.9	205.0
85°	93.5	121.3	149.2	139.9	130.6
87.5°	37.2	60.7	65.1	65.1	60.7
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)