

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: P1050936

Luminaire Tested: 24PTR-100-PR1-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050936
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737735)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-100-PR1-L830-UNV-STD-W
Description: 10000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND RIPPLE LENS

Light Source:
Ballast/Driver: -

Summary

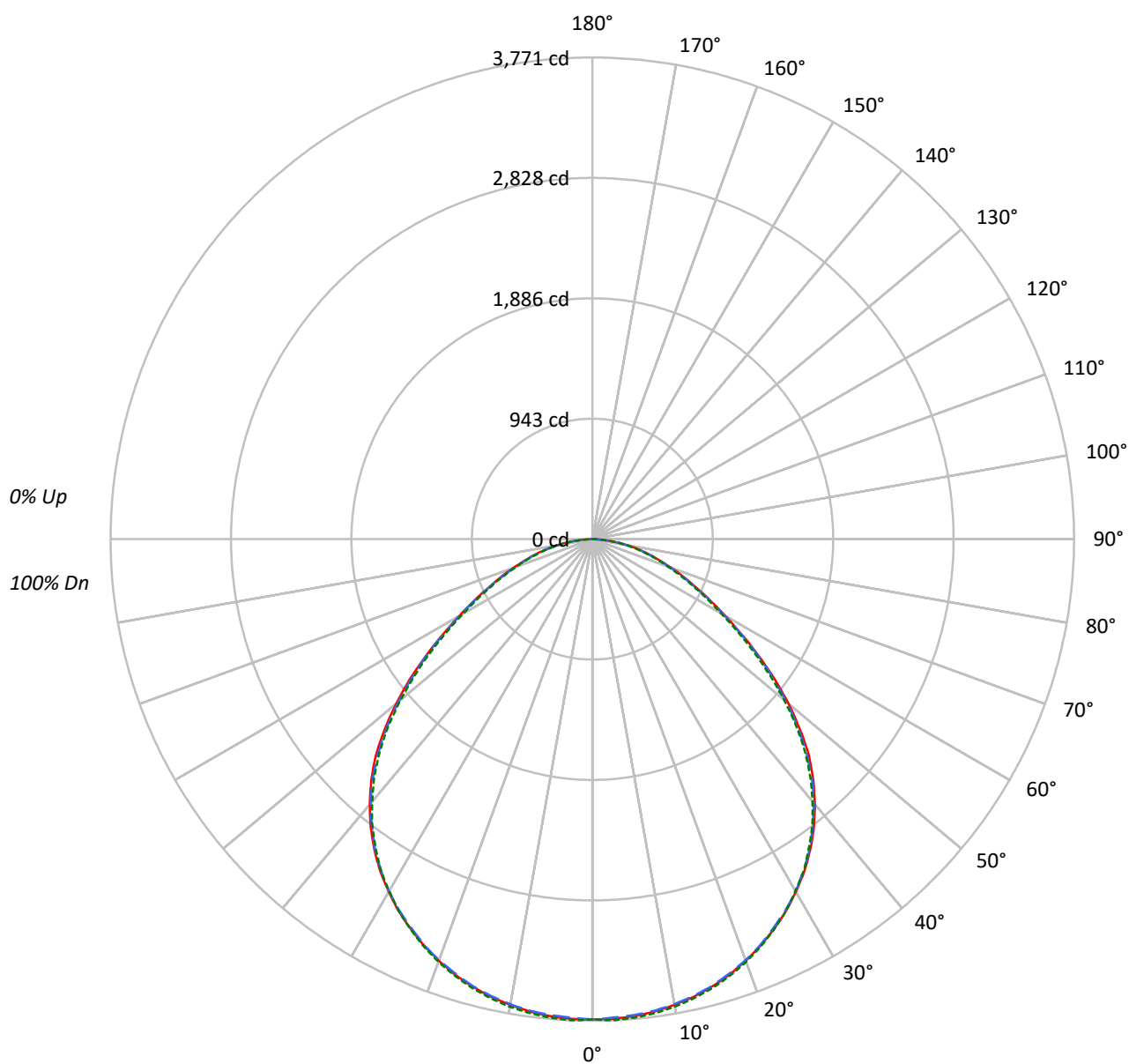
Lumens per Lamp: N/A
Luminaire Lumens: 9509.9 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	92	90	91	89	88	88	88	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	73
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	64	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	56	56	54
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	49	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	43	43	41
7	67	54	45	40	65	53	45	39	52	44	39	50	44	39	49	43	39	39	39	37
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	35	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	31	31	30
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	29	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5059	5059	5059
5°	5064	5053	5081
10°	5060	5051	5079
15°	5050	5043	5067
20°	5029	5023	5043
25°	4997	4984	5002
30°	4952	4946	4940
35°	4884	4873	4853
40°	4761	4742	4708
45°	4562	4511	4478
50°	4198	4150	4099
55°	3715	3699	3627
60°	3228	3217	3130
65°	2845	2828	2772
70°	2581	2545	2493
75°	2390	2334	2291
80°	2182	2152	2080
85°	1723	1709	1641

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4562 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.7	3.8
10°-20°	1023.8	10.8
20°-30°	1551.0	16.3
30°-40°	1851.6	19.5
40°-50°	1820.9	19.1
50°-60°	1407.4	14.8
60°-70°	887.4	9.3
70°-80°	480.0	5.0
80°-90°	131.1	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°	2931.5	30.8
0°-40°	4783.1	50.3
0°-60°	8011.3	84.2
0°-90°	9509.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9509.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3760	3760	3760	3760	3760	
5°	3750	3751	3741	3757	3762	356
15°	3626	3627	3620	3632	3637	1023
25°	3366	3368	3357	3368	3370	1551
35°	2973	2974	2967	2963	2954	1857
45°	2398	2388	2371	2352	2354	1836
55°	1584	1597	1577	1551	1546	1421
65°	894	895	888	873	871	899
75°	460	454	449	452	441	488
85°	112	113	111	112	106	133
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3760.3	3760.3	3760.3	3760.3	3760.3
2.5°	3758.9	3760.3	3749.6	3767.2	3771.1
5°	3749.6	3751.0	3741.3	3757.4	3761.8
7.5°	3730.5	3733.4	3724.1	3740.3	3744.2
10°	3703.5	3706.5	3697.2	3713.3	3717.3
12.5°	3670.2	3671.2	3663.4	3678.1	3682.0
15°	3625.7	3626.7	3620.3	3632.0	3637.4
17.5°	3574.3	3575.7	3566.4	3581.1	3583.6
20°	3512.6	3513.5	3508.2	3520.4	3521.9
22.5°	3443.5	3446.5	3438.1	3448.9	3450.4
25°	3365.7	3368.1	3357.3	3368.1	3369.6
27.5°	3283.4	3284.4	3275.1	3283.4	3281.9
30°	3187.4	3195.7	3183.5	3180.6	3179.6
32.5°	3088.0	3089.0	3077.2	3074.3	3079.7
35°	2973.4	2974.4	2966.6	2962.6	2954.3
37.5°	2848.1	2848.1	2832.9	2830.4	2829.0
40°	2710.4	2709.0	2699.7	2690.4	2680.6
42.5°	2560.6	2563.5	2544.4	2528.3	2525.8
45°	2397.5	2388.2	2370.6	2352.0	2353.5
47.5°	2205.1	2207.5	2183.5	2168.4	2164.4
50°	2005.3	2005.3	1982.8	1966.6	1958.3
52.5°	1796.7	1798.2	1776.6	1755.1	1750.7
55°	1583.7	1596.9	1576.8	1551.3	1546.0
57.5°	1384.4	1395.1	1376.0	1349.1	1347.6
60°	1199.7	1200.7	1195.3	1169.9	1163.0
62.5°	1042.1	1035.2	1032.3	1019.1	1010.7
65°	893.7	895.2	888.3	873.1	870.7
67.5°	773.7	772.2	760.0	750.7	745.3
70°	656.2	652.3	646.9	639.0	633.7
72.5°	551.4	551.4	547.0	544.5	535.2
75°	459.8	454.4	449.0	451.5	440.7
77.5°	372.2	366.8	362.4	357.0	354.5
80°	281.6	276.2	277.7	269.3	268.4
82.5°	195.4	195.4	192.9	186.1	187.6
85°	111.6	113.1	110.7	111.6	106.3
87.5°	40.6	41.6	44.6	41.6	41.6
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)