

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: P1050629

Luminaire Tested: 24PTR-90-PC3-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050629
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737711)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-90-PC3-L830-UNV-STD-W
Description: 9000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND PARAMID LENS

Light Source:
Ballast/Driver: -

Summary

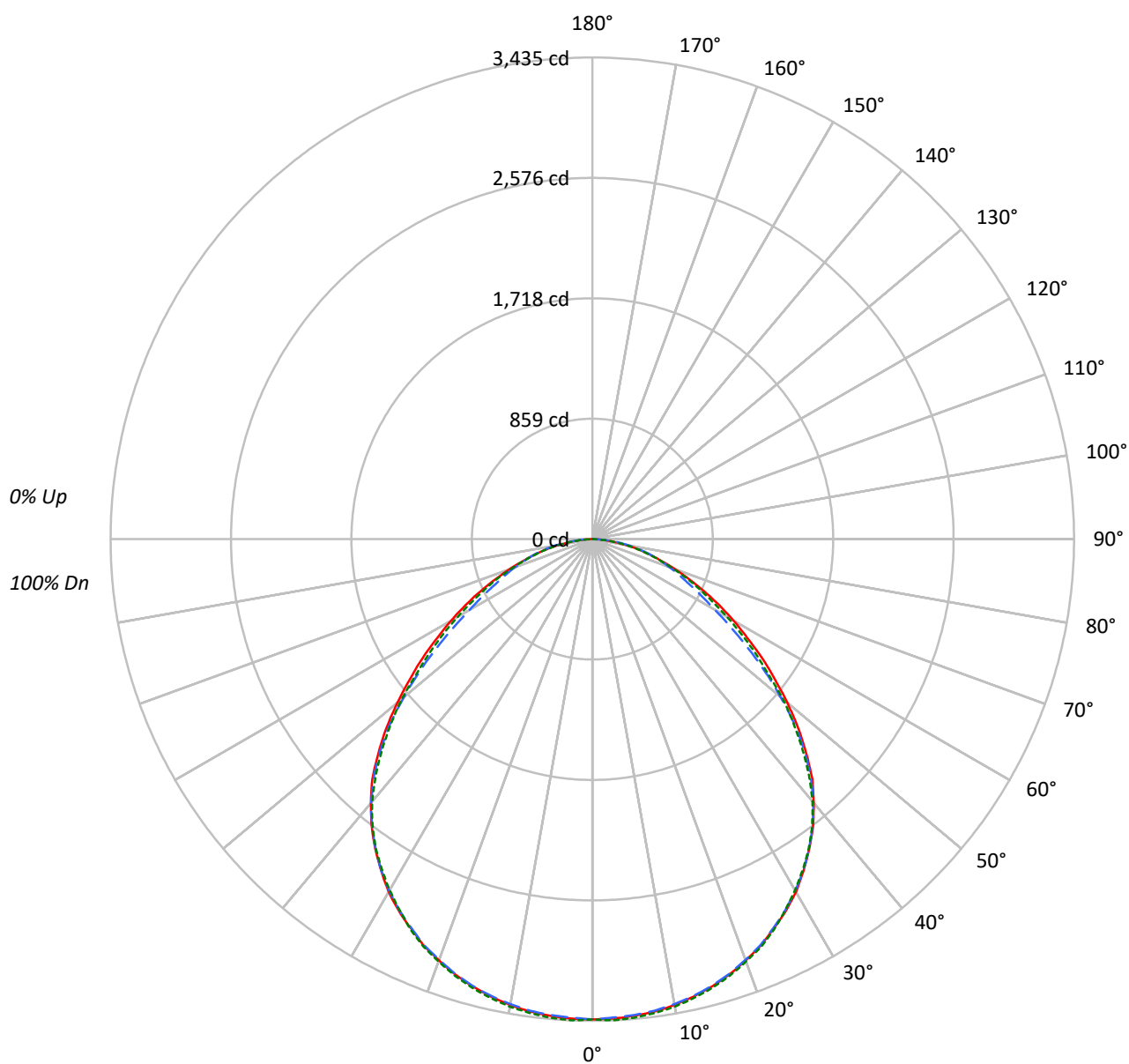
Lumens per Lamp: N/A
Luminaire Lumens: 8634.9 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 76
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	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72		
3	92	82	74	68	90	80	73	68	77	71	66	75	70	65	72	68	64	62		
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54		
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	47		
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41		
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37		
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33		
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30		
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4608	4608	4608
5°	4610	4601	4628
10°	4609	4601	4626
15°	4599	4594	4614
20°	4578	4571	4590
25°	4547	4540	4557
30°	4513	4498	4490
35°	4431	4427	4419
40°	4314	4308	4288
45°	4103	4072	4031
50°	3798	3670	3711
55°	3465	3184	3328
60°	3125	2717	2980
65°	2793	2430	2680
70°	2478	2299	2410
75°	2191	2228	2148
80°	1890	2128	1880
85°	1416	1683	1416

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 4112 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.9	3.8
10°-20°	932.4	10.8
20°-30°	1411.7	16.3
30°-40°	1683.1	19.5
40°-50°	1644.6	19.0
50°-60°	1257.5	14.6
60°-70°	807.4	9.4
70°-80°	449.2	5.2
80°-90°	124.1	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°	2669.0	30.9
0°-40°	4352.2	50.4
0°-60°	7254.3	84.0
0°-90°	8634.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8634.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3425	3425	3425	3425	3425	
5°	3413	3415	3407	3423	3426	325
15°	3301	3304	3298	3309	3312	932
25°	3063	3066	3058	3068	3070	1413
35°	2698	2700	2695	2694	2690	1685
45°	2156	2161	2140	2135	2118	1659
55°	1477	1426	1358	1374	1418	1321
65°	877	810	763	789	842	875
75°	422	425	429	423	413	450
85°	92	108	109	106	92	113
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3425.0	3425.0	3425.0	3425.0	3425.0
2.5°	3422.8	3424.1	3415.2	3429.9	3434.8
5°	3413.0	3415.2	3406.8	3422.8	3426.4
7.5°	3398.3	3400.6	3392.1	3408.1	3409.5
10°	3373.8	3375.2	3367.6	3383.6	3385.9
12.5°	3340.9	3344.5	3336.0	3350.7	3351.6
15°	3301.3	3304.0	3297.7	3308.9	3312.4
17.5°	3255.0	3256.3	3250.1	3262.1	3263.5
20°	3197.1	3197.1	3192.2	3206.0	3206.0
22.5°	3138.4	3134.8	3133.5	3138.4	3146.0
25°	3062.7	3066.3	3057.8	3067.6	3069.8
27.5°	2989.3	2989.3	2981.7	2986.6	2980.4
30°	2904.7	2899.8	2894.9	2895.8	2890.0
32.5°	2802.8	2802.8	2800.6	2800.6	2793.0
35°	2697.7	2700.0	2695.1	2693.7	2690.2
37.5°	2584.7	2588.7	2579.8	2577.6	2574.9
40°	2456.1	2456.1	2452.5	2447.6	2441.4
42.5°	2322.5	2322.5	2306.9	2294.5	2286.0
45°	2156.1	2161.0	2140.0	2135.1	2118.2
47.5°	1990.5	1986.9	1958.9	1955.3	1945.5
50°	1814.2	1793.3	1753.2	1763.9	1772.8
52.5°	1638.0	1612.1	1553.4	1565.4	1580.1
55°	1477.3	1426.1	1357.5	1374.5	1418.5
57.5°	1309.5	1240.9	1172.4	1204.4	1259.2
60°	1161.3	1084.3	1009.5	1043.8	1107.4
62.5°	1019.3	937.4	877.3	910.2	964.1
65°	877.3	809.6	763.3	788.7	841.7
67.5°	747.3	701.9	670.3	682.3	725.1
70°	629.8	601.3	584.4	588.0	612.5
72.5°	518.1	511.0	504.7	504.7	507.0
75°	421.5	425.1	428.6	422.8	413.1
77.5°	332.0	344.1	353.0	340.5	328.5
80°	243.9	263.5	274.6	260.8	242.6
82.5°	166.5	188.7	192.3	183.8	162.9
85°	91.7	107.7	109.0	105.5	91.7
87.5°	34.3	40.5	44.1	40.5	35.6
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)