

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: P1050937

Luminaire Tested: 24PTR-90-PR1-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050937
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-90-PR1-L830-UNV-STD-W
Description: 9000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND RIPPLE LENS

Light Source:
Ballast/Driver: -

Summary

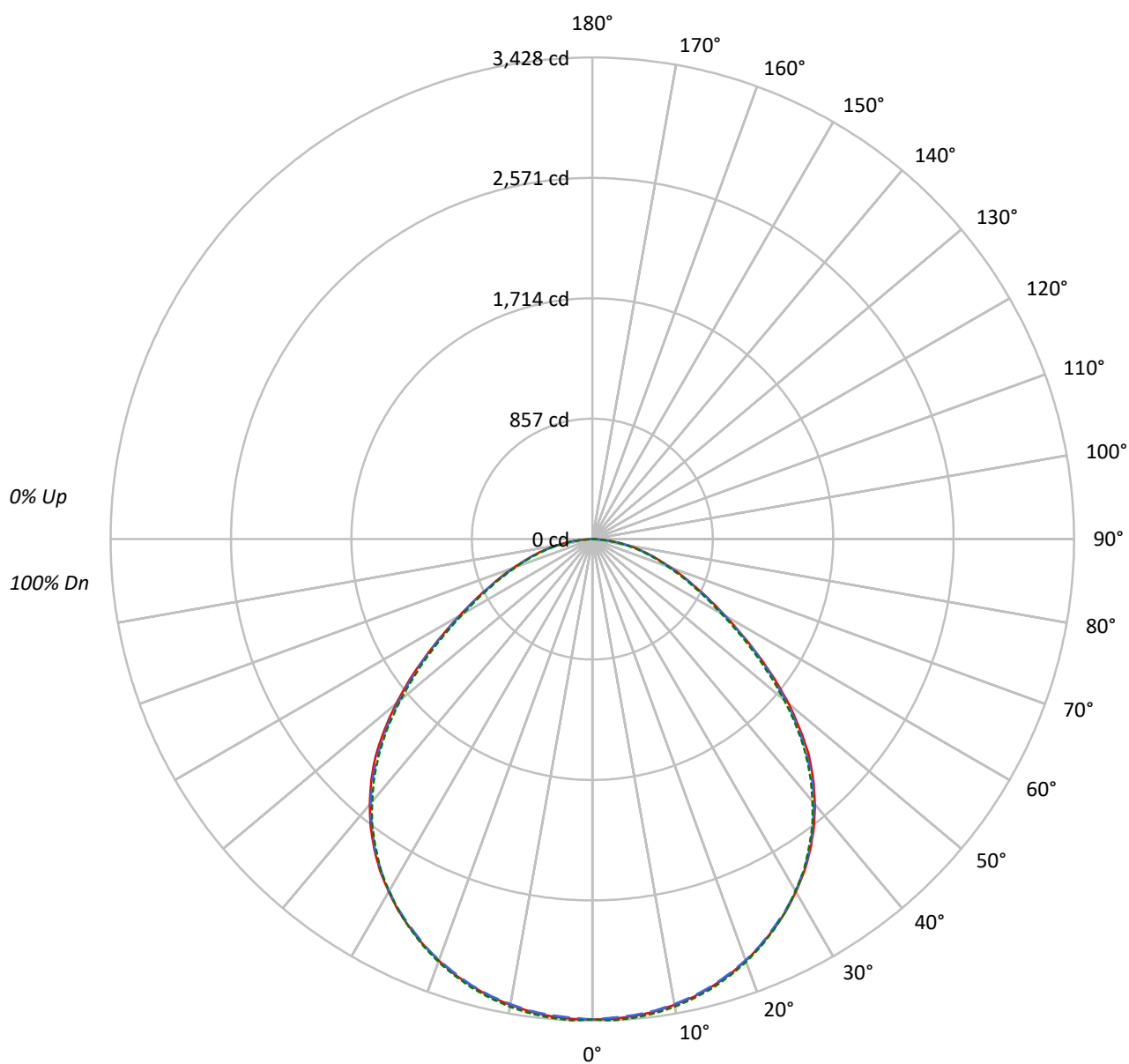
Lumens per Lamp: N/A
Luminaire Lumens: 8644.6 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	88	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	90	80	73	68	78	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	45	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	39	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4599	4599	4599
5°	4603	4593	4619
10°	4600	4592	4617
15°	4591	4584	4606
20°	4572	4566	4584
25°	4542	4531	4547
30°	4502	4496	4490
35°	4440	4429	4411
40°	4327	4310	4280
45°	4147	4100	4071
50°	3816	3773	3726
55°	3377	3362	3297
60°	2935	2924	2845
65°	2586	2571	2520
70°	2347	2313	2266
75°	2173	2122	2083
80°	1984	1956	1890
85°	1567	1553	1491

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4147 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.2	3.8
10°-20°	930.7	10.8
20°-30°	1409.9	16.3
30°-40°	1683.1	19.5
40°-50°	1655.2	19.1
50°-60°	1279.3	14.8
60°-70°	806.7	9.3
70°-80°	436.3	5.0
80°-90°	119.2	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°	2664.8	30.8
0°-40°	4347.9	50.3
0°-60°	7282.4	84.2
0°-90°	8644.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8644.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3418	3418	3418	3418	3418	
5°	3408	3410	3401	3416	3420	324
15°	3296	3297	3291	3302	3306	930
25°	3059	3062	3052	3062	3063	1410
35°	2703	2704	2697	2693	2686	1688
45°	2179	2171	2155	2138	2139	1669
55°	1440	1452	1433	1410	1405	1292
65°	812	814	808	794	792	817
75°	418	413	408	410	401	444
85°	102	103	101	102	97	121
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3418.2	3418.2	3418.2	3418.2	3418.2
2.5°	3416.9	3418.2	3408.4	3424.5	3428.0
5°	3408.4	3409.8	3400.9	3415.5	3419.6
7.5°	3391.1	3393.7	3385.3	3400.0	3403.5
10°	3366.6	3369.3	3360.8	3375.5	3379.0
12.5°	3336.3	3337.2	3330.1	3343.4	3347.0
15°	3295.8	3296.7	3290.9	3301.6	3306.5
17.5°	3249.1	3250.4	3241.9	3255.3	3257.5
20°	3193.0	3193.9	3189.0	3200.1	3201.4
22.5°	3130.2	3132.9	3125.3	3135.1	3136.4
25°	3059.4	3061.7	3051.9	3061.7	3063.0
27.5°	2984.7	2985.5	2977.1	2984.7	2983.3
30°	2897.4	2905.0	2893.8	2891.2	2890.3
32.5°	2807.0	2807.9	2797.3	2794.6	2799.5
35°	2702.9	2703.8	2696.7	2693.1	2685.5
37.5°	2588.9	2588.9	2575.1	2572.9	2571.6
40°	2463.8	2462.5	2454.0	2445.6	2436.7
42.5°	2327.6	2330.3	2312.9	2298.3	2296.0
45°	2179.4	2170.9	2154.9	2138.0	2139.3
47.5°	2004.5	2006.7	1984.9	1971.1	1967.5
50°	1822.8	1822.8	1802.4	1787.7	1780.1
52.5°	1633.2	1634.5	1615.0	1595.4	1591.4
55°	1439.6	1451.6	1433.3	1410.2	1405.3
57.5°	1258.4	1268.2	1250.8	1226.4	1225.0
60°	1090.6	1091.5	1086.6	1063.4	1057.2
62.5°	947.3	941.0	938.4	926.3	918.8
65°	812.4	813.7	807.5	793.7	791.5
67.5°	703.3	702.0	690.9	682.4	677.5
70°	596.5	592.9	588.0	580.9	576.0
72.5°	501.2	501.2	497.2	495.0	486.5
75°	418.0	413.1	408.2	410.4	400.6
77.5°	338.3	333.4	329.4	324.5	322.3
80°	256.0	251.1	252.4	244.8	243.9
82.5°	177.6	177.6	175.4	169.2	170.5
85°	101.5	102.8	100.6	101.5	96.6
87.5°	36.9	37.8	40.5	37.8	37.8
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)