

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: P1051080

Luminaire Tested: 24PTR-90-PW1-L940-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1051080
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-90-PW1-L940-UNV-STD-W
Description: 9000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND WAVES LENS

Light Source:
Ballast/Driver: -

Summary

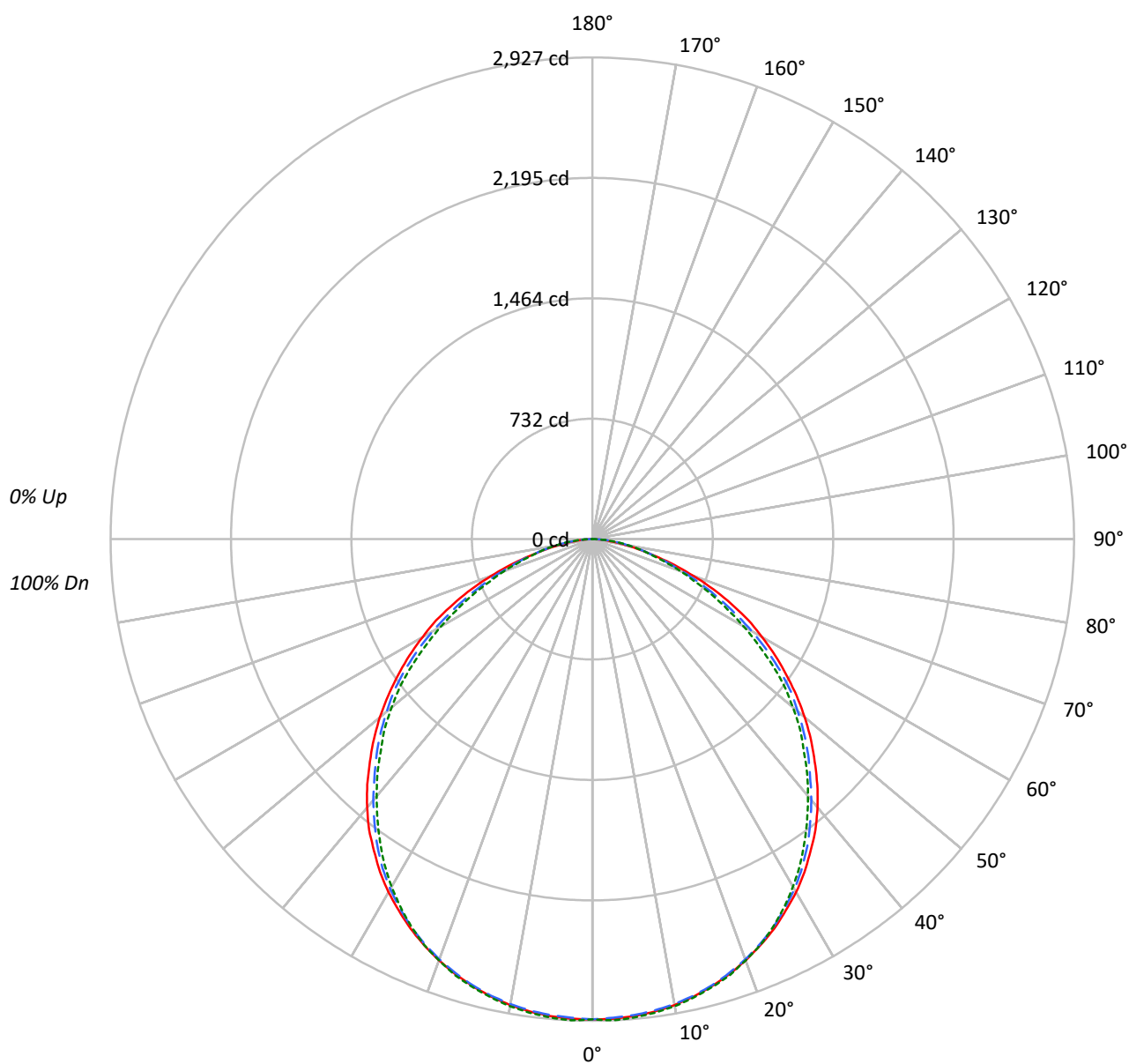
Lumens per Lamp: N/A
Luminaire Lumens: 7744.5 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52		
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40		
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35		
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31		
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3927	3927	3927
5°	3930	3921	3942
10°	3928	3919	3939
15°	3916	3910	3925
20°	3900	3891	3900
25°	3879	3862	3859
30°	3849	3815	3789
35°	3798	3740	3692
40°	3739	3637	3580
45°	3636	3528	3456
50°	3526	3411	3332
55°	3379	3265	3135
60°	3204	3014	2857
65°	2963	2692	2558
70°	2569	2343	2255
75°	2051	2006	1951
80°	1559	1742	1742
85°	1153	1487	1487

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3636 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.7	3.6
10°-20°	793.8	10.2
20°-30°	1199.7	15.5
30°-40°	1424.5	18.4
40°-50°	1435.2	18.5
50°-60°	1240.5	16.0
60°-70°	847.8	10.9
70°-80°	418.1	5.4
80°-90°	108.1	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°	2270.2	29.3
0°-40°	3694.7	47.7
0°-60°	6370.4	82.3
0°-90°	7744.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7744.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2918	2918	2918	2918	2918	
5°	2910	2911	2903	2915	2918	277
15°	2811	2814	2807	2817	2818	794
25°	2613	2610	2602	2604	2600	1203
35°	2312	2304	2277	2257	2248	1447
45°	1911	1890	1854	1833	1816	1475
55°	1440	1436	1392	1350	1336	1288
65°	931	897	846	809	804	919
75°	394	391	386	386	375	430
85°	75	88	96	98	96	91
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2918.3	2918.3	2918.3	2918.3	2918.3
2.5°	2917.5	2918.3	2910.8	2923.8	2926.9
5°	2909.6	2910.8	2903.3	2915.1	2918.3
7.5°	2895.9	2897.8	2889.2	2901.0	2903.3
10°	2875.0	2876.2	2868.7	2880.5	2882.9
12.5°	2847.1	2847.9	2841.6	2852.2	2852.2
15°	2811.4	2814.5	2807.1	2816.9	2817.7
17.5°	2771.3	2772.5	2765.0	2775.6	2778.0
20°	2723.8	2723.8	2717.5	2726.1	2723.8
22.5°	2670.7	2670.7	2663.2	2667.6	2669.5
25°	2612.6	2610.2	2601.6	2603.9	2599.6
27.5°	2545.4	2545.4	2530.0	2530.0	2522.6
30°	2477.4	2471.9	2455.8	2446.0	2438.5
32.5°	2399.2	2391.7	2371.3	2354.0	2348.5
35°	2312.0	2304.1	2277.0	2256.6	2247.9
37.5°	2227.5	2210.2	2174.4	2154.0	2144.2
40°	2128.9	2107.3	2070.7	2042.4	2038.1
42.5°	2023.2	2005.9	1958.3	1937.5	1932.4
45°	1910.8	1890.0	1854.2	1832.6	1816.5
47.5°	1800.4	1785.1	1744.2	1718.3	1712.8
50°	1684.5	1671.5	1629.5	1601.6	1591.7
52.5°	1564.6	1556.0	1520.2	1484.5	1472.7
55°	1440.5	1436.1	1391.7	1350.5	1336.3
57.5°	1318.3	1312.8	1257.4	1209.8	1196.8
60°	1190.6	1174.5	1120.2	1075.8	1061.7
62.5°	1069.5	1035.0	976.4	941.8	925.7
65°	930.8	897.4	845.6	808.6	803.5
67.5°	794.9	754.8	714.7	691.9	674.7
70°	653.0	625.9	595.7	576.4	573.3
72.5°	521.0	501.8	486.4	474.7	464.8
75°	394.5	391.4	385.9	385.9	375.2
77.5°	290.0	297.4	301.8	300.6	302.9
80°	201.2	216.1	224.8	225.9	224.8
82.5°	127.7	145.0	159.1	161.1	163.5
85°	74.7	87.6	96.3	98.2	96.3
87.5°	33.4	42.0	44.4	46.4	44.4
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)