

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: P1051047

Luminaire Tested: 24PTR-90-PW1-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1051047
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-L850-UNV-STD-W
Description: 9000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND WAVES LENS

Light Source:
Ballast/Driver: -

Summary

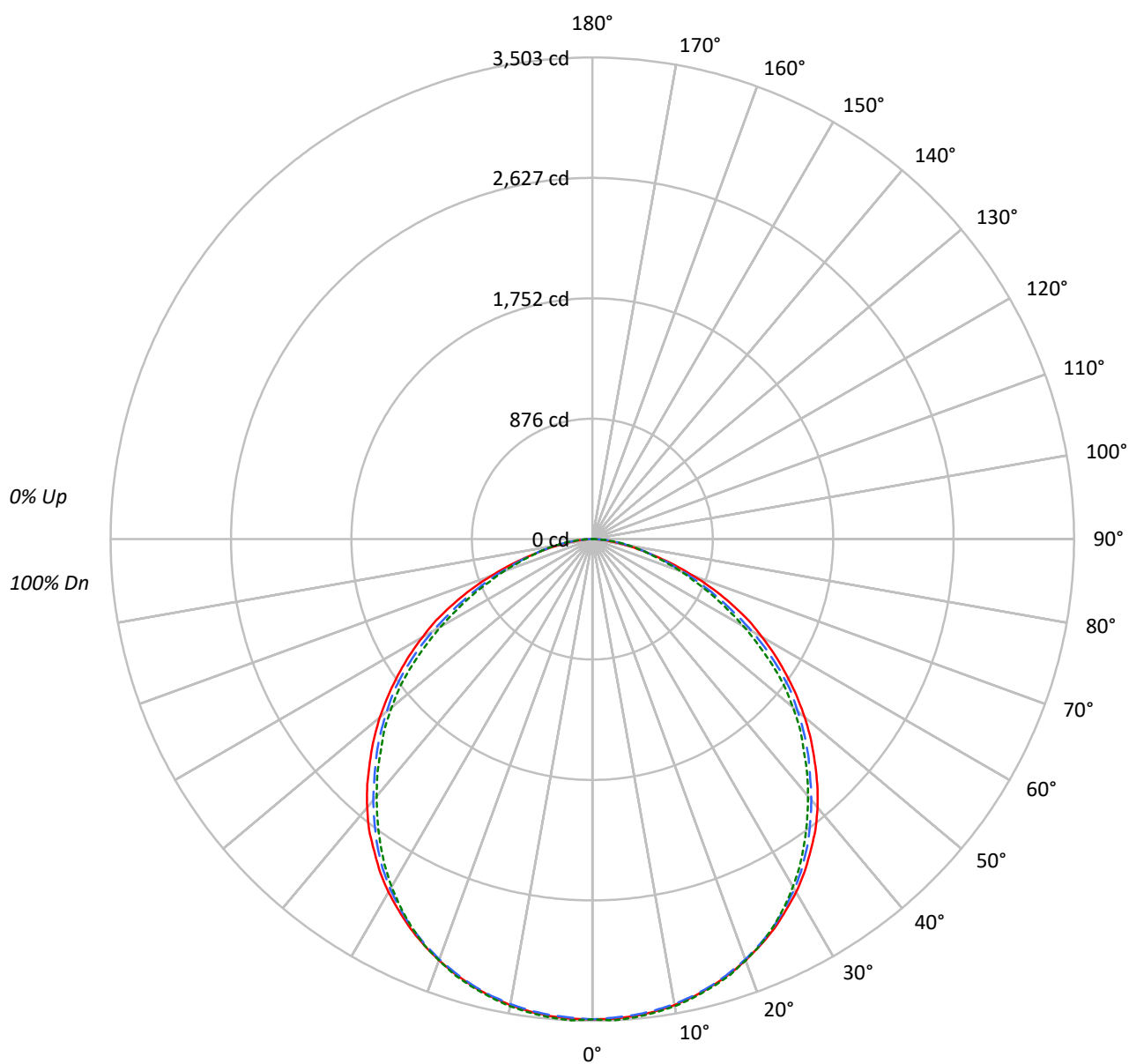
Lumens per Lamp: N/A
Luminaire Lumens: 9268.4 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	102	102	100
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	87	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	74	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	63	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	54	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	42	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	37	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	33	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	30	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	27	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4699	4699	4699
5°	4703	4693	4717
10°	4701	4691	4714
15°	4687	4679	4697
20°	4667	4657	4667
25°	4642	4622	4619
30°	4606	4566	4534
35°	4545	4476	4419
40°	4475	4353	4284
45°	4351	4223	4137
50°	4220	4082	3987
55°	4044	3907	3752
60°	3834	3608	3419
65°	3547	3222	3061
70°	3074	2805	2699
75°	2454	2401	2335
80°	1866	2084	2084
85°	1379	1778	1778

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4351 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.2	3.6
10°-20°	950.0	10.2
20°-30°	1435.7	15.5
30°-40°	1704.8	18.4
40°-50°	1717.6	18.5
50°-60°	1484.6	16.0
60°-70°	1014.7	10.9
70°-80°	500.3	5.4
80°-90°	129.4	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°	2717.0	29.3
0°-40°	4421.8	47.7
0°-60°	7623.9	82.3
0°-90°	9268.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9268.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3492	3492	3492	3492	3492	
5°	3482	3484	3475	3489	3492	331
15°	3365	3368	3359	3371	3372	950
25°	3127	3124	3114	3116	3111	1440
35°	2767	2758	2725	2701	2690	1732
45°	2287	2262	2219	2193	2174	1765
55°	1724	1719	1666	1616	1599	1541
65°	1114	1074	1012	968	962	1100
75°	472	468	462	462	449	515
85°	89	105	115	118	115	109
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3492.5	3492.5	3492.5	3492.5	3492.5
2.5°	3491.5	3492.5	3483.5	3499.1	3502.8
5°	3482.1	3483.5	3474.6	3488.7	3492.5
7.5°	3465.7	3468.0	3457.7	3471.8	3474.6
10°	3440.7	3442.2	3433.2	3447.3	3450.1
12.5°	3407.4	3408.3	3400.8	3413.5	3413.5
15°	3364.6	3368.3	3359.4	3371.1	3372.1
17.5°	3316.6	3318.0	3309.1	3321.8	3324.6
20°	3259.7	3259.7	3252.2	3262.5	3259.7
22.5°	3196.2	3196.2	3187.3	3192.5	3194.8
25°	3126.6	3123.8	3113.5	3116.3	3111.1
27.5°	3046.2	3046.2	3027.9	3027.9	3018.9
30°	2964.9	2958.3	2939.0	2927.2	2918.3
32.5°	2871.3	2862.3	2837.9	2817.2	2810.6
35°	2766.9	2757.5	2725.0	2700.6	2690.2
37.5°	2665.8	2645.1	2602.3	2577.9	2566.1
40°	2547.8	2521.9	2478.2	2444.3	2439.1
42.5°	2421.3	2400.6	2343.7	2318.8	2312.6
45°	2286.8	2261.9	2219.1	2193.2	2173.9
47.5°	2154.6	2136.3	2087.4	2056.4	2049.8
50°	2015.9	2000.4	1950.1	1916.7	1904.9
52.5°	1872.5	1862.1	1819.4	1776.6	1762.5
55°	1723.9	1718.7	1665.6	1616.2	1599.3
57.5°	1577.7	1571.1	1504.8	1447.9	1432.3
60°	1424.8	1405.5	1340.7	1287.5	1270.6
62.5°	1280.0	1238.6	1168.5	1127.2	1107.9
65°	1114.0	1074.0	1012.0	967.8	961.6
67.5°	951.3	903.3	855.4	828.1	807.4
70°	781.5	749.1	712.9	689.8	686.1
72.5°	623.5	600.5	582.2	568.0	556.3
75°	472.1	468.4	461.8	461.8	449.1
77.5°	347.0	356.0	361.1	359.7	362.6
80°	240.8	258.6	269.0	270.4	269.0
82.5°	152.8	173.5	190.4	192.8	195.6
85°	89.3	104.9	115.2	117.6	115.2
87.5°	40.0	50.3	53.1	55.5	53.1
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)