

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: P1050739

Luminaire Tested: 24PTR-90-PL1-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050739
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737719)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-90-PL1-L850-UNV-STD-W
Description: 9000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

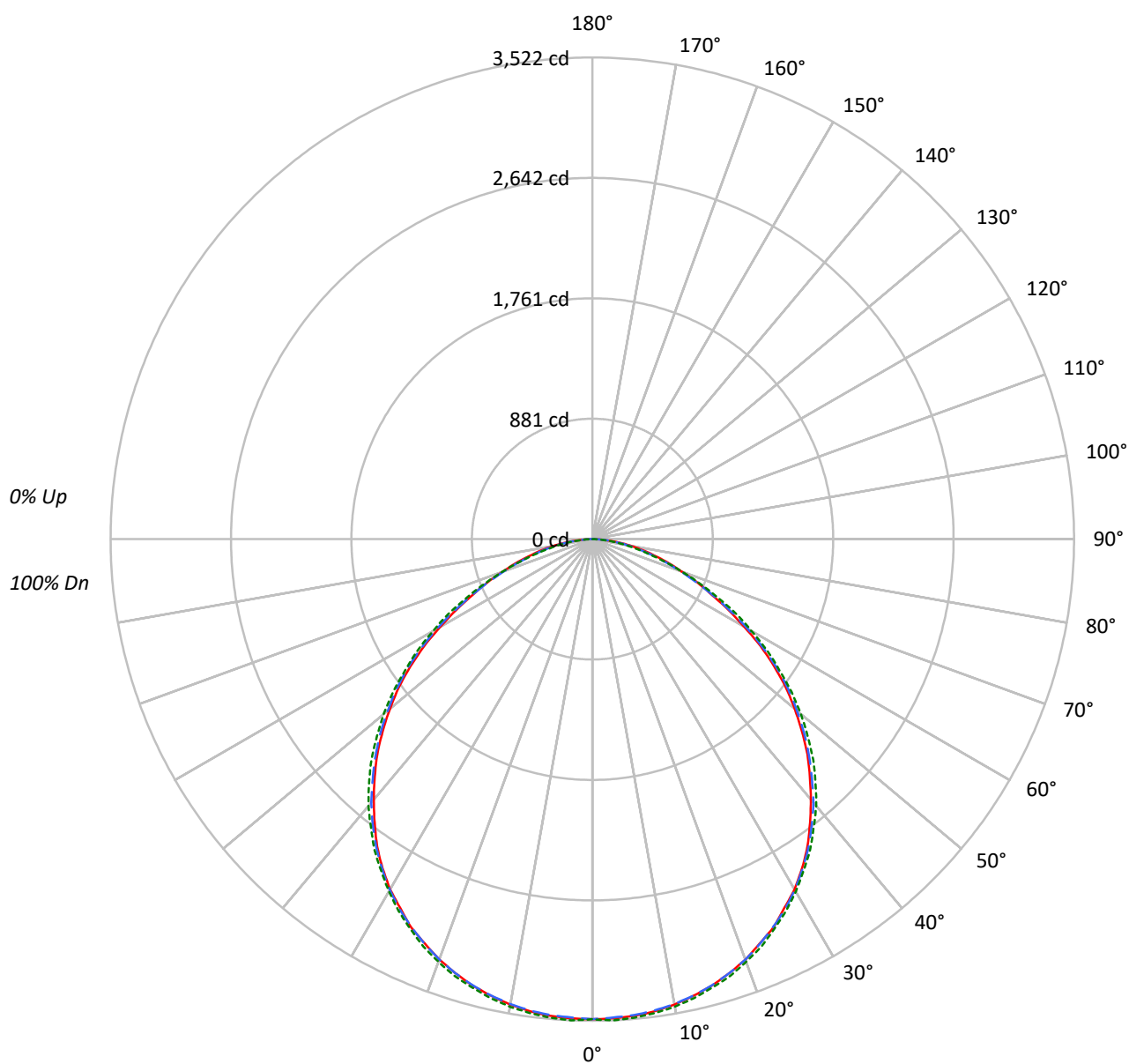
Lumens per Lamp: N/A
Luminaire Lumens: 9253.8 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	96	98	95	93	94	92	90	91	89	87	87	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	74	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	63	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	55	55	52
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	48	48	46
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	42	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	37	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	34	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	30	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4723	4723	4723
5°	4727	4719	4745
10°	4721	4716	4743
15°	4707	4705	4729
20°	4684	4684	4710
25°	4652	4646	4671
30°	4593	4600	4622
35°	4506	4523	4559
40°	4366	4416	4473
45°	4229	4265	4346
50°	4043	4087	4168
55°	3808	3869	3915
60°	3454	3528	3616
65°	3068	3101	3226
70°	2742	2686	2753
75°	2474	2332	2285
80°	2249	2087	1853
85°	1905	1729	1488

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4346 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.0	3.6
10°-20°	955.1	10.3
20°-30°	1444.7	15.6
30°-40°	1722.0	18.6
40°-50°	1731.6	18.7
50°-60°	1469.6	15.9
60°-70°	978.5	10.6
70°-80°	488.6	5.3
80°-90°	130.7	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°	2732.8	29.5
0°-40°	4454.8	48.1
0°-60°	7656.0	82.7
0°-90°	9253.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9253.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3511	3511	3511	3511	3511	
5°	3500	3501	3494	3509	3513	333
15°	3379	3383	3378	3392	3395	953
25°	3134	3134	3129	3144	3146	1441
35°	2743	2746	2754	2773	2776	1711
45°	2223	2226	2241	2271	2284	1710
55°	1623	1635	1649	1665	1669	1447
65°	964	972	974	989	1013	966
75°	476	469	448	438	440	511
85°	123	121	112	105	96	143
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3510.6	3510.6	3510.6	3510.6	3510.6
2.5°	3507.8	3510.6	3501.2	3518.2	3522.4
5°	3500.2	3501.2	3493.6	3509.2	3513.0
7.5°	3483.2	3484.6	3476.6	3493.6	3496.0
10°	3455.8	3458.6	3452.0	3467.6	3471.4
12.5°	3420.8	3424.6	3418.0	3435.0	3437.8
15°	3379.2	3383.0	3377.8	3392.0	3394.8
17.5°	3328.2	3331.0	3328.2	3341.4	3349.0
20°	3271.0	3271.0	3271.0	3282.8	3289.4
22.5°	3199.6	3206.2	3203.4	3219.0	3225.6
25°	3133.5	3133.5	3129.2	3143.9	3146.2
27.5°	3040.8	3051.2	3050.3	3063.0	3065.9
30°	2956.2	2959.1	2960.5	2969.5	2974.7
32.5°	2853.7	2856.0	2860.3	2873.0	2874.5
35°	2743.1	2745.9	2753.5	2772.8	2775.7
37.5°	2614.5	2628.7	2635.3	2656.1	2658.5
40°	2485.5	2494.5	2514.3	2536.1	2546.5
42.5°	2354.1	2364.5	2376.3	2406.1	2415.6
45°	2222.7	2226.5	2241.2	2270.9	2284.2
47.5°	2077.2	2089.0	2101.7	2127.7	2135.8
50°	1931.6	1944.4	1952.4	1975.5	1991.1
52.5°	1784.6	1796.4	1805.4	1819.6	1835.2
55°	1623.4	1634.8	1649.4	1665.0	1668.8
57.5°	1459.4	1472.2	1481.7	1498.2	1515.2
60°	1283.6	1298.3	1311.0	1326.6	1343.7
62.5°	1120.1	1126.2	1139.5	1165.5	1190.1
65°	963.7	971.7	974.1	988.7	1013.3
67.5°	833.7	833.7	821.9	827.1	854.5
70°	697.1	691.9	682.9	677.7	699.9
72.5°	586.5	579.9	560.5	551.5	563.4
75°	475.9	469.3	448.5	438.1	439.5
77.5°	382.3	372.0	354.9	337.0	333.2
80°	290.2	285.9	269.4	252.4	239.1
82.5°	205.6	196.6	187.2	176.8	166.4
85°	123.4	121.0	112.0	105.4	96.4
87.5°	50.6	50.6	48.2	45.4	43.0
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)