

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: P1050954

Luminaire Tested: 24PTR-50-PR1-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050954
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-50-PR1-L840-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND RIPPLE LENS

Light Source:
Ballast/Driver: -

Summary

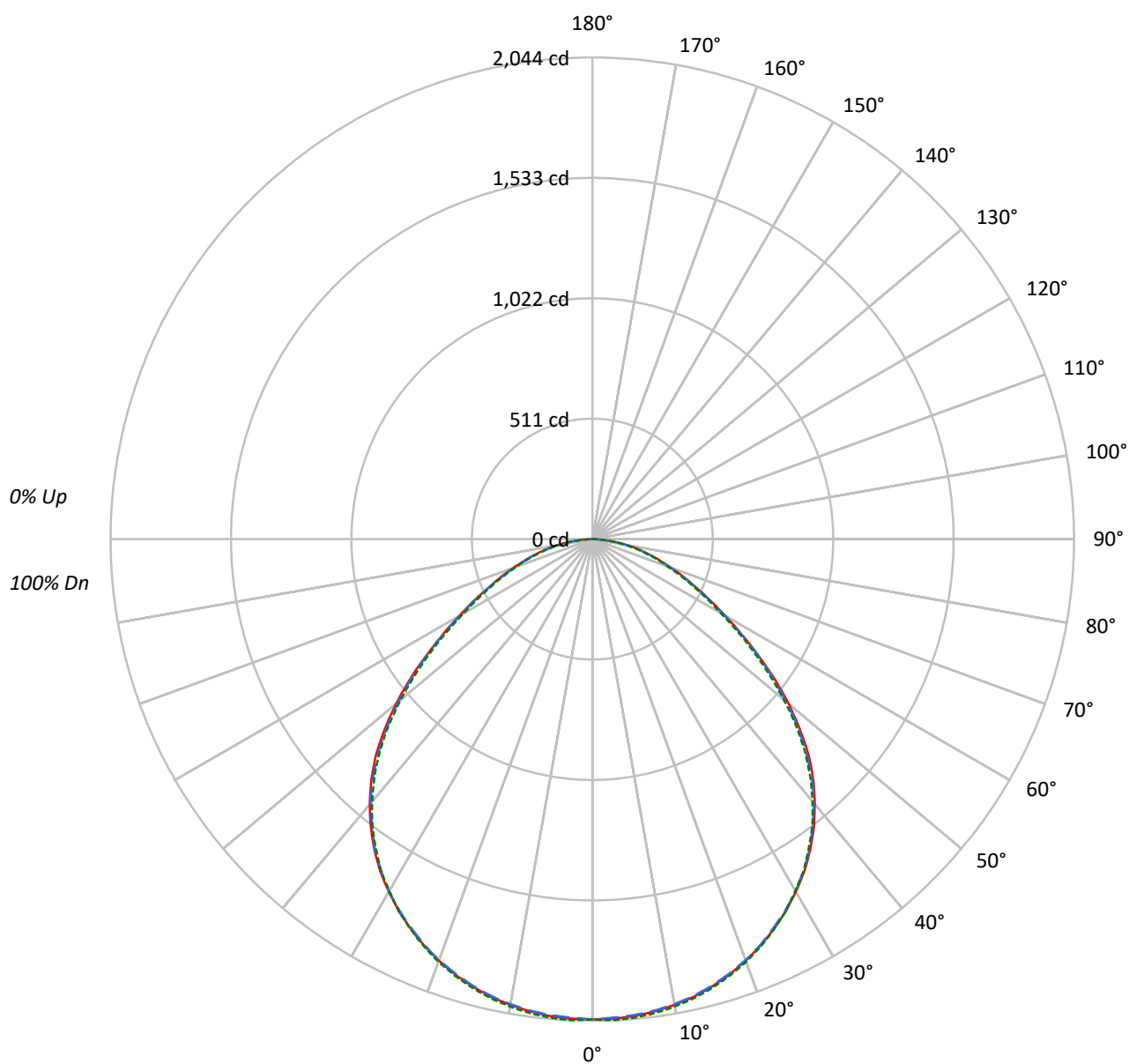
Lumens per Lamp: N/A
Luminaire Lumens: 5153.6 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41
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°	2742	2742	2742
5°	2744	2738	2753
10°	2742	2737	2752
15°	2737	2733	2746
20°	2726	2722	2733
25°	2708	2701	2711
30°	2684	2680	2677
35°	2647	2641	2630
40°	2580	2570	2552
45°	2472	2445	2427
50°	2275	2249	2221
55°	2013	2004	1965
60°	1750	1743	1696
65°	1542	1533	1502
70°	1399	1379	1351
75°	1295	1265	1241
80°	1182	1166	1127
85°	934	926	889

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2472 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.3	3.8
10°-20°	554.8	10.8
20°-30°	840.5	16.3
30°-40°	1003.4	19.5
40°-50°	986.8	19.1
50°-60°	762.7	14.8
60°-70°	480.9	9.3
70°-80°	260.1	5.0
80°-90°	71.1	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°	1588.6	30.8
0°-40°	2592.0	50.3
0°-60°	4341.5	84.2
0°-90°	5153.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5153.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2038	2038	2038	2038	2038	
5°	2032	2033	2028	2036	2039	193
15°	1965	1965	1962	1968	1971	555
25°	1824	1825	1819	1825	1826	841
35°	1611	1612	1608	1606	1601	1006
45°	1299	1294	1285	1275	1275	995
55°	858	865	854	841	838	770
65°	484	485	481	473	472	487
75°	249	246	243	245	239	265
85°	60	61	60	60	58	72
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2037.8	2037.8	2037.8	2037.8	2037.8
2.5°	2037.0	2037.8	2032.0	2041.5	2043.7
5°	2032.0	2032.8	2027.5	2036.2	2038.6
7.5°	2021.6	2023.2	2018.2	2026.9	2029.1
10°	2007.0	2008.6	2003.6	2012.3	2014.5
12.5°	1989.0	1989.5	1985.3	1993.2	1995.4
15°	1964.8	1965.4	1961.9	1968.3	1971.2
17.5°	1937.0	1937.8	1932.7	1940.7	1942.0
20°	1903.5	1904.1	1901.1	1907.8	1908.6
22.5°	1866.1	1867.7	1863.2	1869.0	1869.8
25°	1823.9	1825.2	1819.4	1825.2	1826.0
27.5°	1779.3	1779.9	1774.8	1779.3	1778.5
30°	1727.3	1731.8	1725.2	1723.6	1723.1
32.5°	1673.5	1674.0	1667.6	1666.0	1668.9
35°	1611.4	1611.9	1607.6	1605.5	1601.0
37.5°	1543.4	1543.4	1535.2	1533.9	1533.1
40°	1468.9	1468.1	1463.0	1458.0	1452.7
42.5°	1387.6	1389.2	1378.9	1370.1	1368.8
45°	1299.3	1294.2	1284.7	1274.6	1275.4
47.5°	1195.0	1196.3	1183.3	1175.1	1173.0
50°	1086.7	1086.7	1074.5	1065.7	1061.2
52.5°	973.7	974.5	962.8	951.1	948.7
55°	858.2	865.4	854.5	840.7	837.8
57.5°	750.2	756.1	745.7	731.1	730.3
60°	650.2	650.7	647.8	634.0	630.3
62.5°	564.7	561.0	559.4	552.2	547.7
65°	484.3	485.1	481.4	473.2	471.8
67.5°	419.3	418.5	411.9	406.8	403.9
70°	355.6	353.5	350.6	346.3	343.4
72.5°	298.8	298.8	296.4	295.1	290.1
75°	249.2	246.3	243.3	244.7	238.8
77.5°	201.7	198.8	196.4	193.5	192.1
80°	152.6	149.7	150.5	146.0	145.4
82.5°	105.9	105.9	104.6	100.8	101.6
85°	60.5	61.3	60.0	60.5	57.6
87.5°	22.0	22.6	24.1	22.6	22.6
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)