

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: P1050646

Luminaire Tested: 24PTR-50-PC3-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050646
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737711)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-50-PC3-L840-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND PARAMID LENS

Light Source:
Ballast/Driver: -

Summary

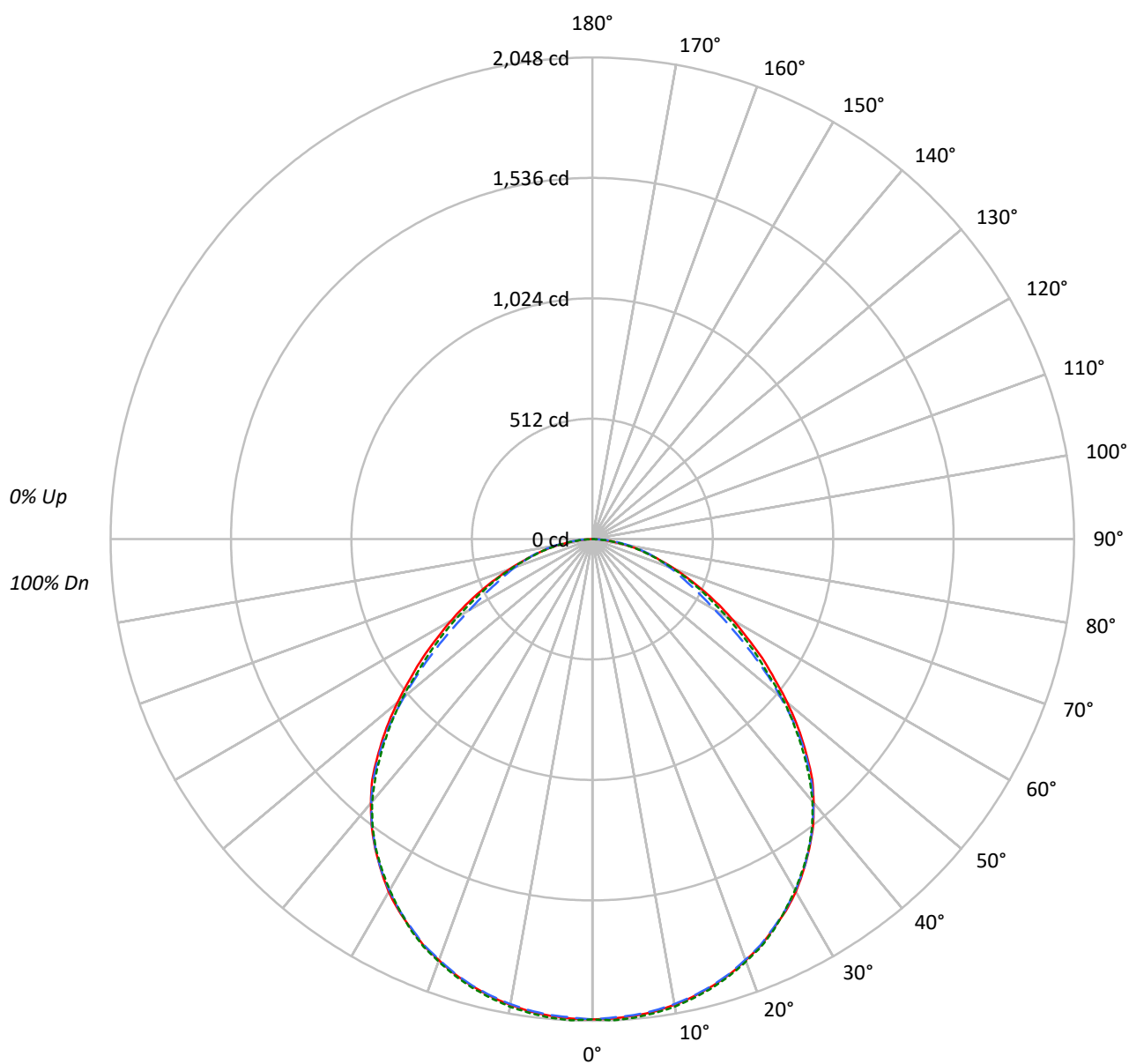
Lumens per Lamp: N/A
Luminaire Lumens: 5147.8 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72		
3	92	82	74	68	90	80	73	68	77	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	46	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	40	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2747	2747	2747
5°	2748	2743	2759
10°	2748	2743	2758
15°	2741	2739	2751
20°	2729	2725	2737
25°	2711	2706	2717
30°	2690	2681	2677
35°	2642	2639	2634
40°	2572	2568	2556
45°	2446	2428	2403
50°	2264	2188	2212
55°	2066	1898	1984
60°	1863	1619	1777
65°	1665	1449	1598
70°	1477	1371	1436
75°	1306	1328	1280
80°	1127	1268	1120
85°	844	1003	844

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 2451 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.7	3.8
10°-20°	555.9	10.8
20°-30°	841.6	16.3
30°-40°	1003.4	19.5
40°-50°	980.4	19.0
50°-60°	749.7	14.6
60°-70°	481.3	9.4
70°-80°	267.8	5.2
80°-90°	74.0	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°	1591.2	30.9
0°-40°	2594.6	50.4
0°-60°	4324.7	84.0
0°-90°	5147.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5147.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2042	2042	2042	2042	2042	
5°	2035	2036	2031	2040	2043	194
15°	1968	1970	1966	1973	1975	555
25°	1826	1828	1823	1829	1830	842
35°	1608	1610	1607	1606	1604	1005
45°	1285	1288	1276	1273	1263	989
55°	881	850	809	819	846	787
65°	523	483	455	470	502	522
75°	251	253	256	252	246	269
85°	55	64	65	63	55	67
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2041.9	2041.9	2041.9	2041.9	2041.9
2.5°	2040.5	2041.3	2036.0	2044.8	2047.7
5°	2034.7	2036.0	2031.0	2040.5	2042.7
7.5°	2025.9	2027.3	2022.2	2031.8	2032.6
10°	2011.3	2012.1	2007.6	2017.2	2018.5
12.5°	1991.7	1993.8	1988.8	1997.5	1998.1
15°	1968.1	1969.7	1966.0	1972.6	1974.7
17.5°	1940.5	1941.3	1937.6	1944.7	1945.5
20°	1906.0	1906.0	1903.1	1911.3	1911.3
22.5°	1871.0	1868.9	1868.1	1871.0	1875.5
25°	1825.9	1828.0	1822.9	1828.8	1830.1
27.5°	1782.1	1782.1	1777.6	1780.5	1776.8
30°	1731.7	1728.7	1725.8	1726.4	1722.9
32.5°	1670.9	1670.9	1669.6	1669.6	1665.1
35°	1608.3	1609.6	1606.7	1605.9	1603.8
37.5°	1540.9	1543.3	1538.0	1536.6	1535.0
40°	1464.2	1464.2	1462.1	1459.2	1455.4
42.5°	1384.6	1384.6	1375.3	1367.9	1362.8
45°	1285.4	1288.3	1275.8	1272.9	1262.8
47.5°	1186.6	1184.5	1167.8	1165.7	1159.8
50°	1081.6	1069.1	1045.2	1051.6	1056.9
52.5°	976.5	961.1	926.1	933.2	942.0
55°	880.7	850.2	809.3	819.4	845.7
57.5°	780.7	739.8	698.9	718.0	750.7
60°	692.3	646.4	601.8	622.2	660.2
62.5°	607.6	558.8	523.0	542.6	574.7
65°	523.0	482.7	455.1	470.2	501.8
67.5°	445.5	418.5	399.6	406.8	432.3
70°	375.5	358.5	348.4	350.5	365.1
72.5°	308.9	304.6	300.9	300.9	302.2
75°	251.3	253.4	255.5	252.1	246.2
77.5°	198.0	205.1	210.4	203.0	195.8
80°	145.4	157.1	163.7	155.5	144.6
82.5°	99.2	112.5	114.6	109.6	97.1
85°	54.7	64.2	65.0	62.9	54.7
87.5°	20.4	24.1	26.3	24.1	21.2
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)