

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: P1050503

Luminaire Tested: 24PTR-50-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050503
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2310-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-50-L850-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

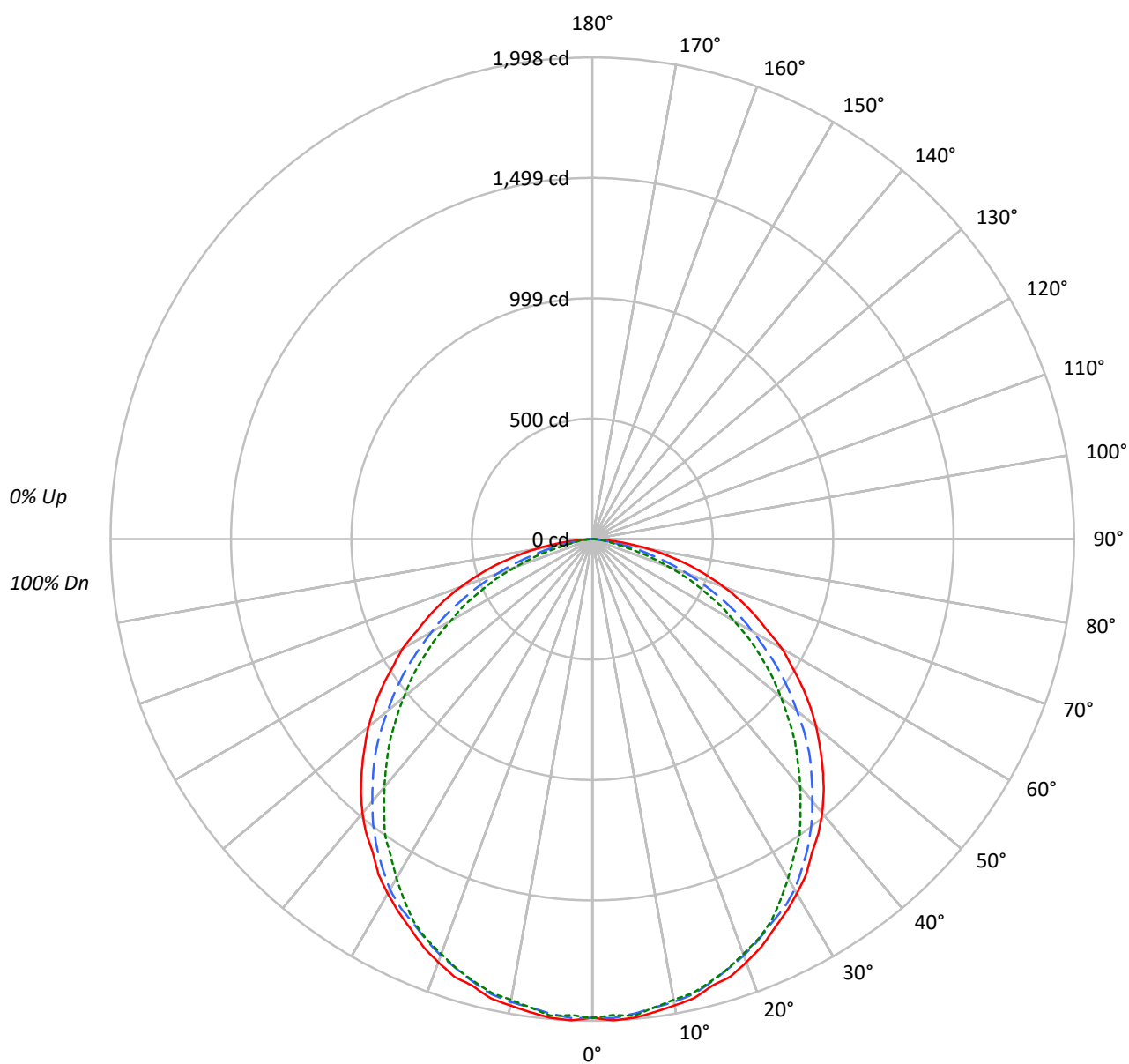
Lumens per Lamp: N/A
Luminaire Lumens: 5289.3 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	87	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	74	74	72
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	56	68	61	56	66	60	55	64	58	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	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	33	33	31
9	57	44	36	31	56	44	36	30	42	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	27	37	32	27	27	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2672	2672	2672
5°	2692	2669	2680
10°	2684	2663	2652
15°	2672	2651	2646
20°	2674	2632	2621
25°	2648	2609	2600
30°	2637	2607	2523
35°	2607	2560	2461
40°	2605	2493	2356
45°	2572	2428	2262
50°	2538	2320	2139
55°	2489	2211	2009
60°	2444	2069	1824
65°	2361	1898	1630
70°	2284	1652	1330
75°	2146	1303	916
80°	1860	788	550
85°	1241	567	530

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2572 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.2	3.6
10°-20°	538.6	10.2
20°-30°	813.6	15.4
30°-40°	967.3	18.3
40°-50°	981.1	18.5
50°-60°	851.9	16.1
60°-70°	604.8	11.4
70°-80°	289.0	5.5
80°-90°	54.8	1.0
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°	1540.4	29.1
0°-40°	2507.8	47.4
0°-60°	4340.8	82.1
0°-90°	5289.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5289.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1986	1986	1986	1986	1986	
5°	1993	1986	1976	1981	1984	189
15°	1918	1923	1903	1901	1899	543
25°	1784	1781	1758	1765	1752	824
35°	1587	1585	1559	1506	1498	997
45°	1352	1340	1276	1209	1189	1043
55°	1061	1029	943	887	856	948
65°	742	686	596	532	512	734
75°	413	337	251	199	176	433
85°	80	43	37	36	34	101
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1985.7	1985.7	1985.7	1985.7	1985.7
2.5°	1997.6	1990.5	1988.1	1996.4	1976.3
5°	1992.8	1985.7	1976.3	1981.0	1984.5
7.5°	1978.6	1972.7	1959.7	1970.4	1959.7
10°	1964.4	1958.5	1949.1	1952.6	1940.8
12.5°	1950.3	1936.1	1933.7	1936.1	1927.8
15°	1918.3	1923.0	1902.9	1900.6	1899.4
17.5°	1902.9	1891.1	1869.8	1871.0	1868.6
20°	1867.5	1853.3	1837.9	1835.5	1830.8
22.5°	1830.8	1814.2	1800.0	1807.1	1796.5
25°	1783.5	1781.1	1757.5	1764.6	1751.6
27.5°	1742.1	1733.8	1723.2	1707.8	1688.9
30°	1697.2	1688.9	1678.2	1638.0	1623.8
32.5°	1649.8	1640.4	1619.1	1571.8	1556.4
35°	1587.2	1584.8	1558.8	1505.6	1498.5
37.5°	1539.9	1513.8	1492.6	1438.1	1418.0
40°	1483.1	1468.9	1419.2	1367.2	1341.2
42.5°	1420.4	1403.8	1347.1	1291.5	1263.1
45°	1351.8	1340.0	1276.1	1208.7	1188.6
47.5°	1280.9	1270.2	1194.5	1129.5	1103.4
50°	1212.3	1199.2	1108.2	1045.5	1021.8
52.5°	1137.7	1116.5	1026.6	965.1	942.6
55°	1060.9	1028.9	942.6	887.0	856.3
57.5°	979.3	949.7	853.9	795.9	771.1
60°	908.3	866.9	768.7	709.6	677.7
62.5°	817.2	781.8	688.3	618.5	603.2
65°	741.5	686.0	596.1	532.2	512.1
67.5°	664.7	599.6	508.6	443.5	432.9
70°	580.7	513.3	419.9	356.0	338.2
72.5°	495.5	429.3	338.2	270.8	260.2
75°	412.8	337.1	250.7	198.7	176.2
77.5°	322.9	254.3	176.2	121.8	107.6
80°	240.1	171.5	101.7	72.1	71.0
82.5°	157.3	99.3	54.4	55.6	53.2
85°	80.4	42.6	36.7	35.5	34.3
87.5°	15.4	16.6	17.7	17.7	17.7
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)