

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: P1050569

Luminaire Tested: 24PTR-50-PB1-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050569
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737703)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-50-PB1-L840-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

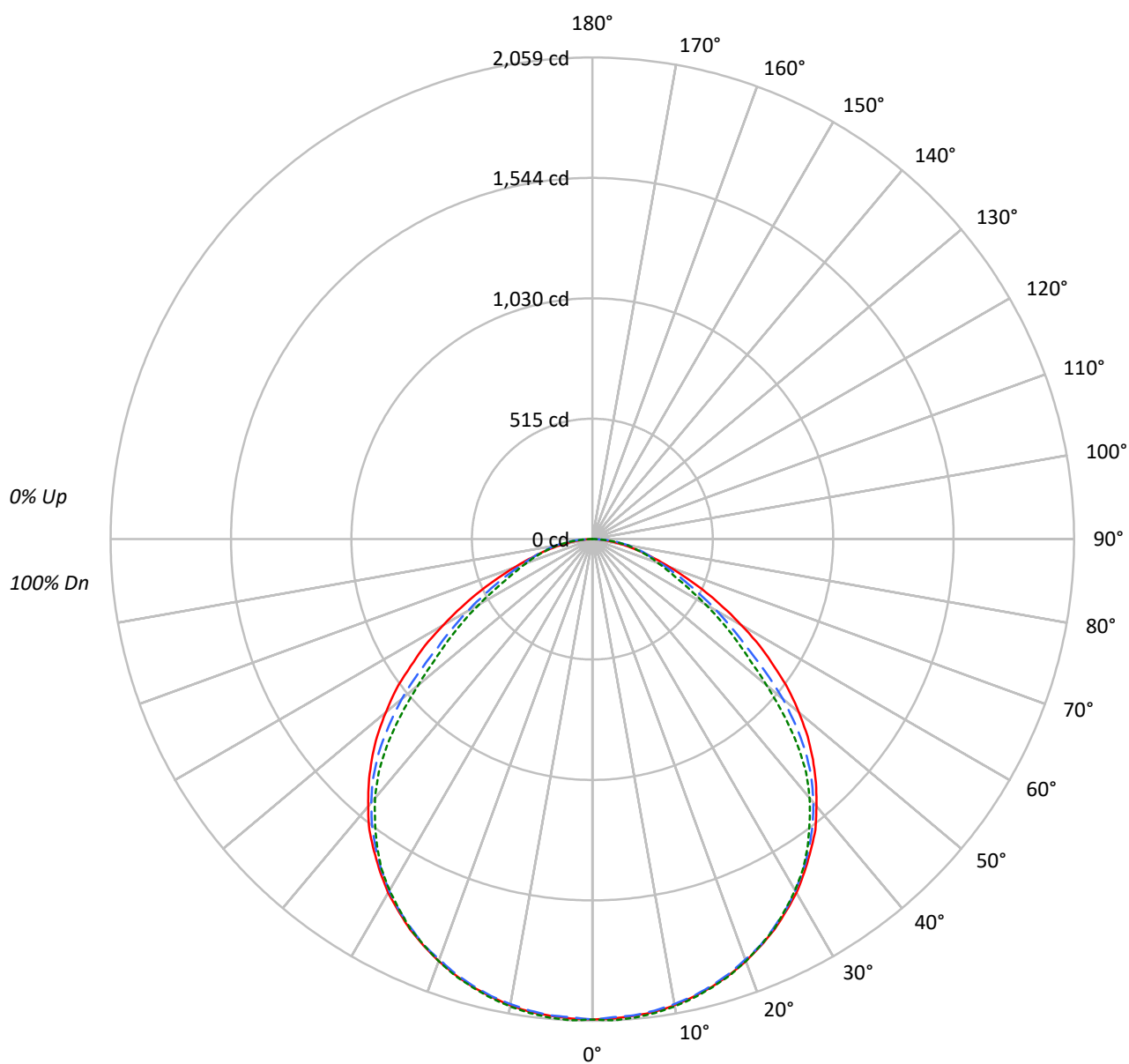
Lumens per Lamp: N/A
Luminaire Lumens: 5120.6 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	93	90	91	89	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64	62		
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54		
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47		
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42		
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37		
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	33		
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30		
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2763	2763	2763
5°	2763	2760	2774
10°	2764	2757	2771
15°	2759	2752	2762
20°	2749	2738	2749
25°	2734	2722	2730
30°	2712	2696	2692
35°	2672	2651	2635
40°	2618	2582	2537
45°	2538	2456	2355
50°	2411	2226	2035
55°	2222	1890	1753
60°	1978	1652	1502
65°	1697	1432	1279
70°	1401	1262	1173
75°	1182	1208	1143
80°	999	1233	1175
85°	781	1249	1093

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2538 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.7	3.8
10°-20°	558.7	10.9
20°-30°	846.3	16.5
30°-40°	1008.5	19.7
40°-50°	986.2	19.3
50°-60°	745.9	14.6
60°-70°	458.3	8.9
70°-80°	244.1	4.8
80°-90°	77.9	1.5
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°	1599.8	31.2
0°-40°	2608.2	50.9
0°-60°	4340.3	84.8
0°-90°	5120.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5120.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2054	2054	2054	2054	2054	
5°	2046	2048	2044	2051	2054	195
15°	1980	1983	1975	1983	1983	559
25°	1841	1839	1834	1836	1839	848
35°	1627	1624	1614	1606	1604	1017
45°	1334	1326	1291	1248	1238	1026
55°	947	899	806	760	748	848
65°	533	490	450	414	402	530
75°	227	230	232	225	220	244
85°	51	66	81	76	71	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2053.6	2053.6	2053.6	2053.6	2053.6
2.5°	2051.2	2053.6	2045.9	2056.2	2058.6
5°	2045.9	2048.5	2043.5	2051.2	2053.6
7.5°	2038.4	2038.4	2033.4	2040.8	2043.5
10°	2023.3	2023.3	2018.3	2025.7	2028.4
12.5°	2003.2	2003.2	2000.5	2005.6	2008.2
15°	1980.4	1982.7	1975.3	1982.7	1982.7
17.5°	1952.5	1950.1	1947.5	1952.5	1955.2
20°	1919.6	1919.6	1912.2	1917.2	1919.6
22.5°	1881.7	1881.7	1879.3	1881.7	1879.3
25°	1841.4	1838.8	1833.7	1836.4	1838.8
27.5°	1793.4	1793.4	1788.4	1788.4	1785.7
30°	1745.4	1742.8	1735.3	1730.3	1732.7
32.5°	1687.3	1684.7	1677.3	1672.2	1674.6
35°	1626.6	1624.2	1614.1	1606.5	1604.1
37.5°	1566.2	1558.5	1545.7	1535.7	1525.6
40°	1490.3	1482.6	1470.2	1447.4	1444.7
42.5°	1414.5	1407.0	1386.6	1359.0	1351.4
45°	1333.6	1326.2	1290.6	1247.7	1237.6
47.5°	1247.7	1235.2	1179.5	1126.5	1106.3
50°	1151.9	1129.1	1063.4	995.2	972.4
52.5°	1058.3	1018.0	932.1	871.4	848.8
55°	947.2	899.2	805.9	760.3	747.5
57.5°	848.8	783.1	707.2	661.9	651.8
60°	735.1	674.4	613.9	573.3	558.2
62.5°	631.4	578.4	528.0	492.4	474.9
65°	533.0	490.1	449.7	414.2	401.7
67.5°	437.0	414.2	381.3	353.7	346.1
70°	356.1	343.4	320.9	308.1	298.1
72.5°	282.9	288.0	272.9	267.8	260.1
75°	227.3	229.9	232.3	224.9	219.8
77.5°	171.8	184.3	194.4	189.3	184.3
80°	128.9	141.3	159.1	151.7	151.7
82.5°	88.3	103.7	118.8	113.8	111.1
85°	50.6	65.8	80.9	75.8	70.8
87.5°	20.2	32.9	35.3	35.3	32.9
90°	0.0	0.0	0.0	0.0	0.0





— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)