

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: P1050888

Luminaire Tested: 24PTR-50-PP3-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050888
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737727)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-50-PP3-L850-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND PRISM LENS

Light Source:
Ballast/Driver: -

Summary

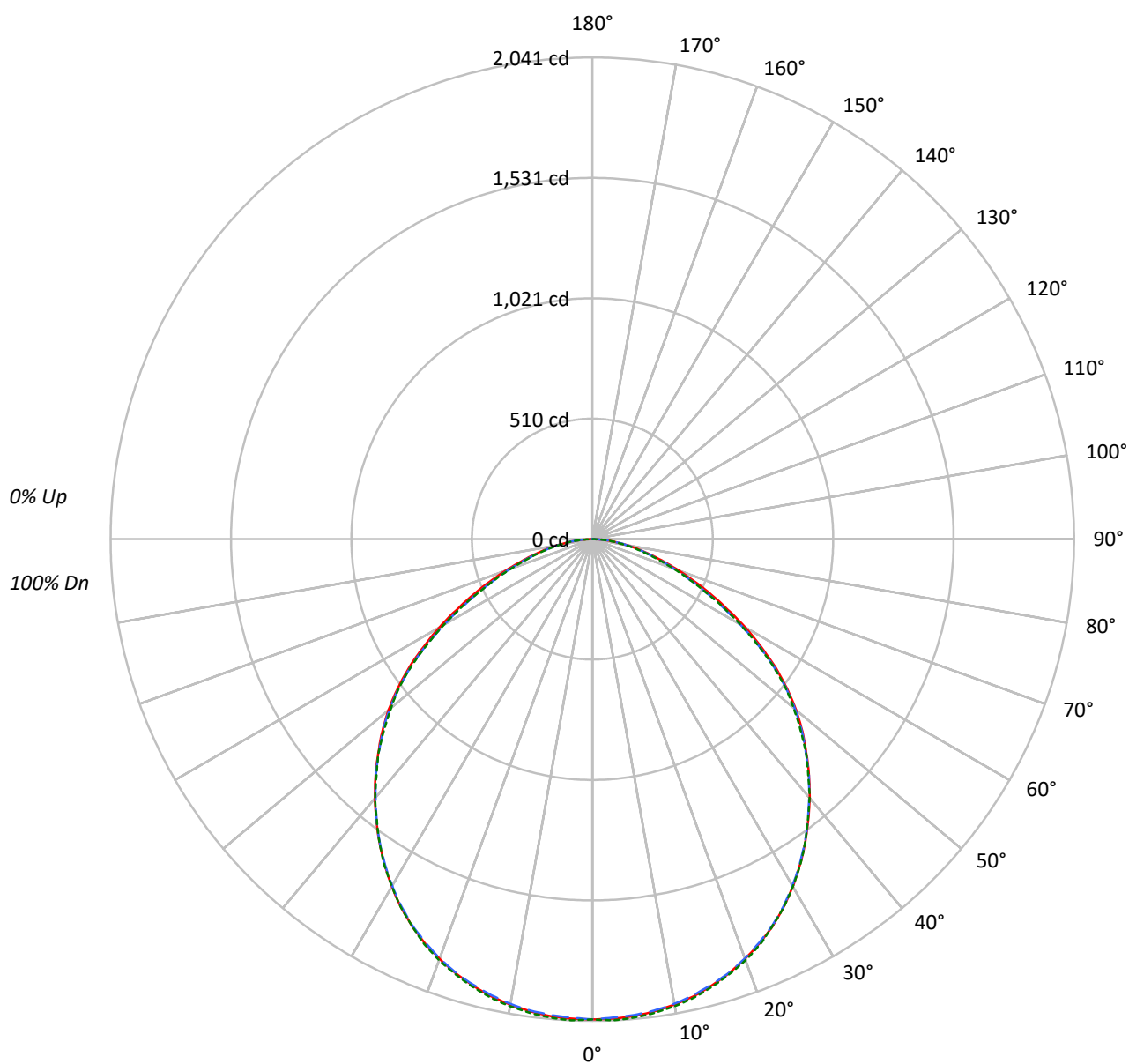
Lumens per Lamp: N/A
Luminaire Lumens: 5257.4 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	61		
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53		
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	52	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	42	40		
7	66	53	45	39	65	52	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32		
9	58	45	37	31	57	44	36	31	43	36	31	42	35	31	41	35	31	29		
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2738	2738	2738
5°	2740	2734	2749
10°	2736	2732	2746
15°	2727	2722	2735
20°	2709	2707	2719
25°	2685	2681	2684
30°	2640	2635	2640
35°	2583	2579	2581
40°	2517	2509	2515
45°	2441	2434	2437
50°	2359	2348	2331
55°	2221	2195	2188
60°	2016	1948	1951
65°	1770	1682	1679
70°	1531	1461	1444
75°	1324	1275	1247
80°	1173	1156	1104
85°	969	1002	945

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 2450 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.0	3.7
10°-20°	552.8	10.5
20°-30°	832.3	15.8
30°-40°	982.3	18.7
40°-50°	987.9	18.8
50°-60°	834.0	15.9
60°-70°	535.6	10.2
70°-80°	266.4	5.1
80°-90°	73.0	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°	1578.1	30.0
0°-40°	2560.4	48.7
0°-60°	4382.4	83.4
0°-90°	5257.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5257.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2035	2035	2035	2035	2035	
5°	2029	2029	2024	2034	2035	193
15°	1958	1959	1954	1963	1963	552
25°	1809	1809	1806	1809	1808	832
35°	1572	1573	1570	1572	1572	983
45°	1283	1287	1279	1281	1281	990
55°	947	946	936	932	933	842
65°	556	548	528	523	527	554
75°	255	253	245	243	240	276
85°	63	65	65	61	61	74
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2034.8	2034.8	2034.8	2034.8	2034.8
2.5°	2034.0	2034.8	2029.4	2039.1	2040.7
5°	2028.9	2029.4	2024.3	2034.0	2035.3
7.5°	2018.4	2019.2	2014.7	2023.5	2025.1
10°	2002.9	2005.3	1999.9	2008.2	2009.6
12.5°	1983.8	1984.6	1979.2	1988.9	1990.5
15°	1958.0	1958.6	1954.3	1963.1	1963.1
17.5°	1928.2	1929.1	1926.1	1933.6	1932.8
20°	1892.3	1894.4	1890.7	1895.8	1898.7
22.5°	1853.1	1853.9	1849.3	1856.1	1859.0
25°	1808.8	1809.4	1805.9	1809.4	1808.0
27.5°	1757.0	1758.4	1753.3	1757.0	1757.8
30°	1699.3	1703.1	1695.8	1698.8	1699.3
32.5°	1637.3	1639.5	1634.4	1635.2	1638.9
35°	1572.4	1573.2	1570.2	1571.6	1571.6
37.5°	1502.3	1505.3	1500.7	1502.9	1499.9
40°	1432.8	1429.9	1428.3	1429.9	1432.0
42.5°	1359.6	1360.4	1358.2	1356.6	1353.1
45°	1282.8	1287.4	1279.1	1280.7	1280.7
47.5°	1207.7	1208.2	1203.9	1199.4	1196.4
50°	1127.2	1127.2	1121.8	1118.3	1113.7
52.5°	1039.1	1037.8	1031.9	1028.1	1030.3
55°	946.8	946.0	935.8	932.1	932.9
57.5°	845.6	847.2	831.7	827.9	827.9
60°	749.0	741.5	723.8	718.7	725.1
62.5°	647.6	638.7	619.7	619.7	624.8
65°	556.1	548.0	528.2	522.8	527.3
67.5°	470.5	462.9	444.7	441.7	443.1
70°	389.1	382.7	371.4	364.7	367.1
72.5°	319.1	313.2	305.7	300.6	297.6
75°	254.7	253.3	245.3	242.9	239.9
77.5°	201.5	201.0	194.3	191.3	188.4
80°	151.4	150.6	149.2	144.7	142.5
82.5°	107.9	107.9	107.1	103.3	101.2
85°	62.8	64.9	64.9	61.2	61.2
87.5°	25.2	26.6	25.2	25.2	24.4
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)