

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: P1046737

Luminaire Tested: 22PTR-50-PB1-L850-UNV-STD-W

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1046737
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737703)
Test Lab: INNOVATION CENTER
Issue Date: 7/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22PTR-50-PB1-L850-UNV-STD-W
Description: 5000 LUMEN 2X2 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND BEVEL LENS

Light Source:
Ballast/Driver: -

Summary

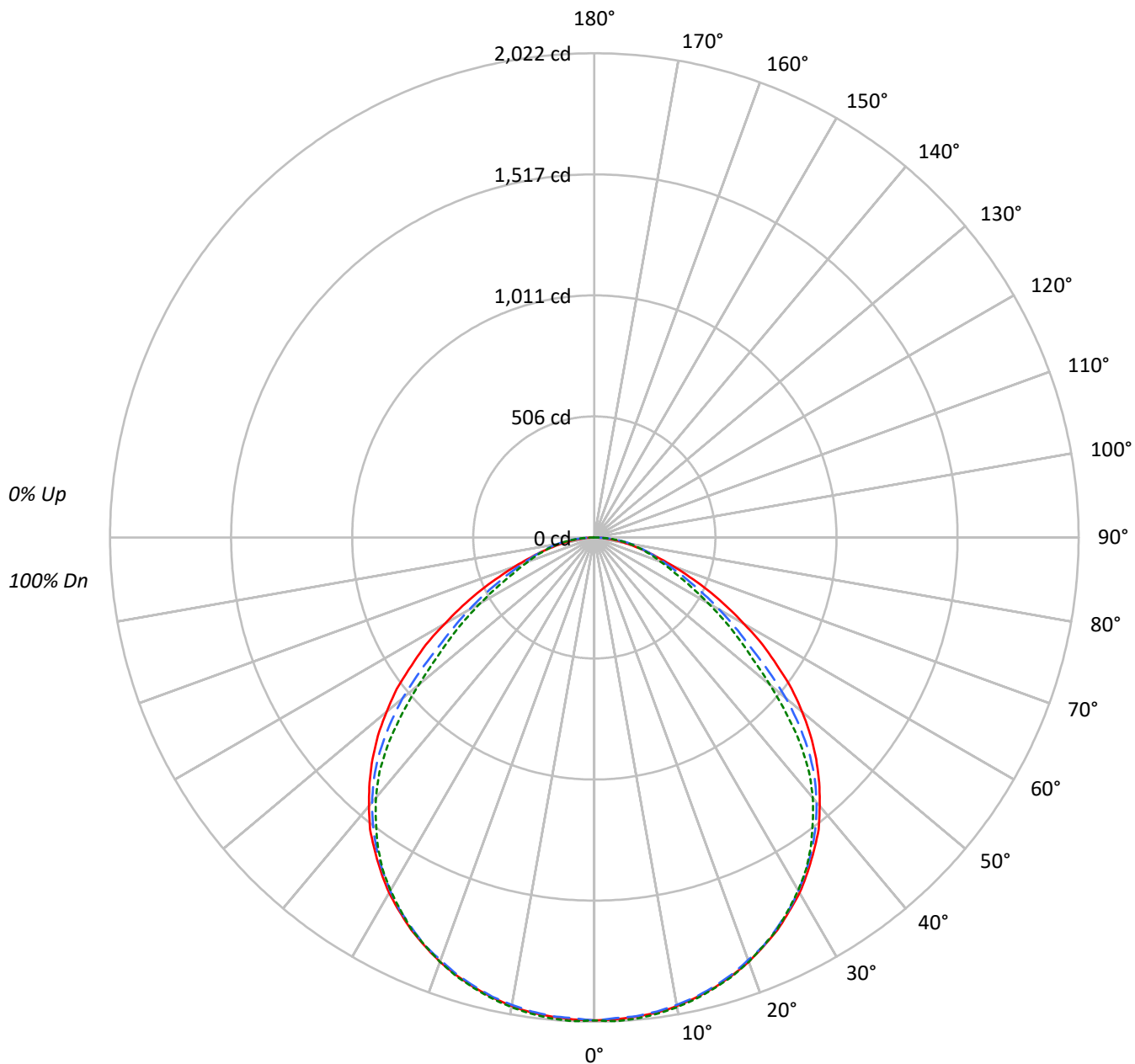
Lumens per Lamp: N/A
Luminaire Lumens: 5029.0 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: (L: 2 ' x W: 0 ' x H: 2 '
CIE Type: Direct

Input Watts (W): 39
Input Voltage (V): 120
Input Current (A_{in}): 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°	Luminous shape not found, reference photometric report, or contact the photometric lab for calculations.		
5°			
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: -
Vertical Angle: -
Luminance: -

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.2	3.8
10°-20°	548.7	10.9
20°-30°	831.2	16.5
30°-40°	990.4	19.7
40°-50°	968.5	19.3
50°-60°	732.6	14.6
60°-70°	450.1	8.9
70°-80°	239.8	4.8
80°-90°	76.5	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°	1571.1	31.2
0°-40°	2561.5	50.9
0°-60°	4262.6	84.8
0°-90°	5029.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5029.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2017	2017	2017	2017	2017	
5°	2009	2012	2007	2014	2017	191
15°	1945	1947	1940	1947	1947	549
25°	1808	1806	1801	1804	1806	833
35°	1598	1595	1585	1578	1575	999
45°	1310	1302	1268	1225	1215	1007
55°	930	883	792	747	734	833
65°	524	481	442	407	395	521
75°	223	226	228	221	216	239
85°	50	65	79	74	70	60
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2016.8	2016.8	2016.8	2016.8	2016.8
2.5°	2014.5	2016.8	2009.3	2019.4	2021.8
5°	2009.3	2011.9	2006.9	2014.5	2016.8
7.5°	2002.0	2002.0	1997.0	2004.3	2006.9
10°	1987.1	1987.1	1982.2	1989.5	1992.1
12.5°	1967.3	1967.3	1964.7	1969.7	1972.3
15°	1944.9	1947.3	1940.0	1947.3	1947.3
17.5°	1917.6	1915.2	1912.6	1917.6	1920.2
20°	1885.3	1885.3	1878.0	1882.9	1885.3
22.5°	1848.0	1848.0	1845.7	1848.0	1845.7
25°	1808.5	1805.9	1800.9	1803.5	1805.9
27.5°	1761.3	1761.3	1756.4	1756.4	1753.8
30°	1714.2	1711.6	1704.3	1699.3	1701.7
32.5°	1657.1	1654.5	1647.2	1642.3	1644.6
35°	1597.5	1595.2	1585.3	1577.7	1575.4
37.5°	1538.1	1530.6	1518.1	1508.2	1498.3
40°	1463.6	1456.1	1443.8	1421.5	1418.8
42.5°	1389.2	1381.9	1361.8	1334.7	1327.2
45°	1309.7	1302.4	1267.5	1225.3	1215.4
47.5°	1225.3	1213.1	1158.4	1106.3	1086.5
50°	1131.3	1108.9	1044.3	977.4	955.0
52.5°	1039.4	999.8	915.4	855.8	833.7
55°	930.3	883.1	791.5	746.7	734.2
57.5°	833.7	769.1	694.6	650.0	640.1
60°	721.9	662.3	602.9	563.1	548.2
62.5°	620.1	568.0	518.5	483.6	466.4
65°	523.5	481.3	441.7	406.8	394.6
67.5°	429.2	406.8	374.5	347.4	339.9
70°	349.8	337.3	315.1	302.6	292.7
72.5°	277.9	282.8	268.0	263.0	255.5
75°	223.2	225.8	228.1	220.8	215.9
77.5°	168.8	181.0	190.9	186.0	181.0
80°	126.6	138.8	156.3	149.0	149.0
82.5°	86.7	101.8	116.7	111.7	109.1
85°	49.7	64.6	79.4	74.5	69.5
87.5°	19.8	32.3	34.6	34.6	32.3
90°	0.0	0.0	0.0	0.0	0.0







— 0°-180° - - 45°-225° - - - 90°-270°





(END OF REPORT)