

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: P1046863

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

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1046863
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2409-224-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22PTR-50-PLG-L850-UNV-STD-W
Description: 5000 LUMEN 2X2 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

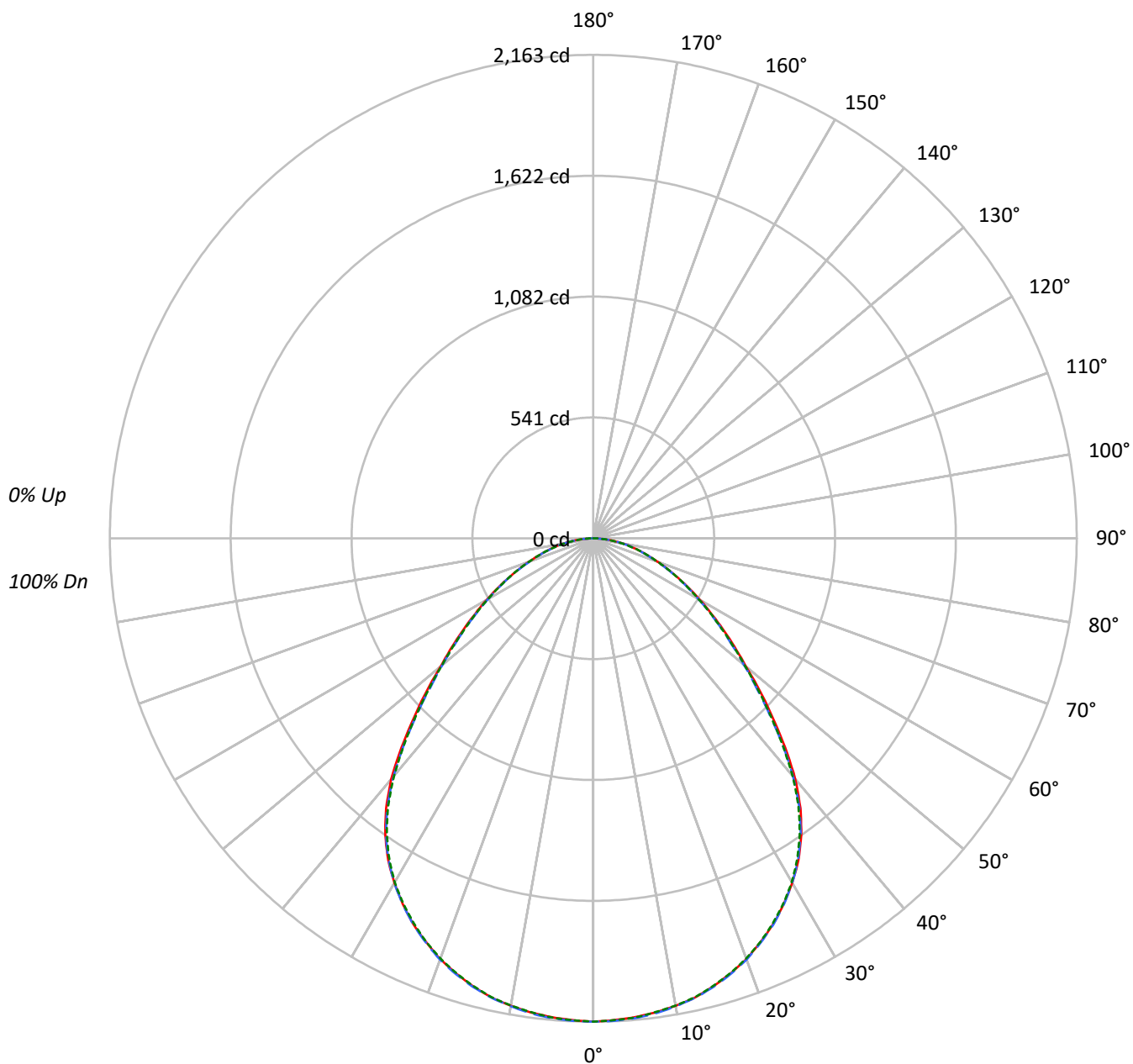
Lumens per Lamp: N/A
Luminaire Lumens: 4873.5 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: (L: 2 ' x W: 0 ' x H: 2 '
CIE Type: Direct

Input Watts (W): 39
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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74		
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	69	66	64		
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56		
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49		
6	74	61	53	47	72	60	52	47	58	51	46	57	51	46	55	50	45	43		
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39		
8	64	51	43	38	62	51	43	38	49	42	37	48	42	37	47	41	37	35		
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32		
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29		

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°	204.8	4.2
10°-20°	585.9	12.0
20°-30°	876.7	18.0
30°-40°	1004.5	20.6
40°-50°	868.7	17.8
50°-60°	628.7	12.9
60°-70°	414.1	8.5
70°-80°	225.4	4.6
80°-90°	64.6	1.3
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°	1667.4	34.2
0°-40°	2671.9	54.8
0°-60°	4169.4	85.6
0°-90°	4873.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4873.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2163	2163	2163	2163	2163	
5°	2151	2155	2155	2155	2152	204
15°	2075	2077	2078	2082	2074	585
25°	1905	1905	1906	1908	1900	876
35°	1622	1621	1618	1616	1610	1008
45°	1134	1131	1116	1114	1121	878
55°	706	703	695	691	697	636
65°	418	421	414	411	416	417
75°	213	213	210	210	213	227
85°	57	57	57	58	51	66
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2162.9	2162.9	2162.9	2162.9	2162.9
2.5°	2158.2	2162.9	2161.3	2162.9	2158.2
5°	2150.6	2155.2	2155.2	2155.2	2152.1
7.5°	2139.8	2142.9	2144.4	2146.0	2138.3
10°	2124.5	2127.5	2126.0	2129.1	2122.9
12.5°	2104.5	2104.5	2106.1	2109.1	2103.0
15°	2075.4	2076.9	2078.4	2081.5	2073.8
17.5°	2041.6	2043.1	2044.7	2046.2	2040.0
20°	2003.2	2003.2	2006.3	2007.8	2000.1
22.5°	1955.6	1955.6	1958.7	1963.3	1954.1
25°	1905.0	1905.0	1906.5	1908.0	1900.4
27.5°	1845.1	1845.1	1846.6	1851.2	1842.0
30°	1780.6	1779.1	1780.6	1782.2	1776.0
32.5°	1708.5	1706.9	1705.4	1706.9	1699.3
35°	1622.5	1621.0	1617.9	1616.4	1610.2
37.5°	1522.7	1519.7	1513.5	1513.5	1507.4
40°	1406.1	1398.4	1390.7	1387.7	1386.1
42.5°	1271.0	1264.9	1254.1	1252.6	1252.6
45°	1134.4	1131.3	1116.0	1114.4	1120.6
47.5°	1011.6	1003.9	990.1	987.0	996.2
50°	890.3	891.8	879.6	875.0	884.2
52.5°	795.1	792.1	781.3	778.3	785.9
55°	706.1	703.0	695.4	690.8	696.9
57.5°	624.8	623.2	615.5	614.0	617.1
60°	551.1	549.5	543.4	541.9	543.4
62.5°	482.0	482.0	475.9	472.8	477.4
65°	417.5	420.6	414.5	411.4	416.0
67.5°	359.2	362.3	356.1	353.1	359.2
70°	303.9	307.0	300.9	297.8	303.9
72.5°	256.3	257.9	253.3	251.7	259.4
75°	213.4	213.4	210.3	210.3	213.4
77.5°	173.5	171.9	170.4	170.4	167.3
80°	133.5	132.0	132.0	132.0	127.4
82.5°	95.2	92.1	93.6	95.2	87.5
85°	56.8	56.8	56.8	58.3	50.7
87.5°	23.0	23.0	21.5	23.0	20.0
90°	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report







— 0°-180° - - 45°-225° - - - 90°-270°





(END OF REPORT)