

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: P1046821

Luminaire Tested: 22PTR-50-PL1-L850-UNV-STD-W

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1046821
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737719)
Test Lab: INNOVATION CENTER
Issue Date: 7/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22PTR-50-PL1-L850-UNV-STD-W
Description: 5000 LUMEN 2X2 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

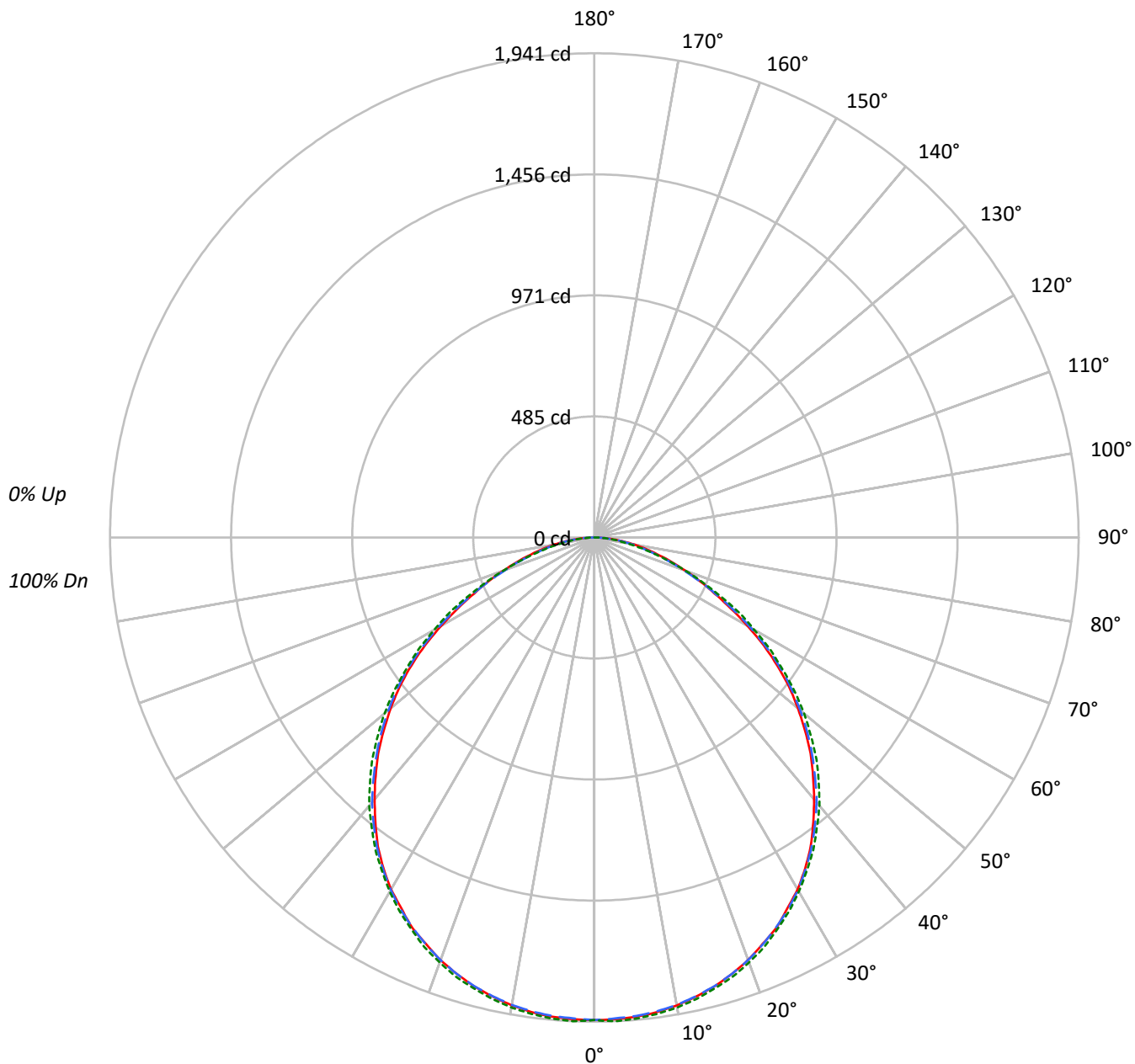
Lumens per Lamp: N/A
Luminaire Lumens: 5100.3 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: (L: 2 ' x W: 0 ' x H: 2 '
CIE Type: Direct

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	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72		
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61		
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	52		
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	46		
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40		
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35		
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32		
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29		
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26		

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°	183.5	3.6
10°-20°	526.4	10.3
20°-30°	796.2	15.6
30°-40°	949.1	18.6
40°-50°	954.4	18.7
50°-60°	810.0	15.9
60°-70°	539.3	10.6
70°-80°	269.3	5.3
80°-90°	72.0	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°	1506.2	29.5
0°-40°	2455.3	48.1
0°-60°	4219.6	82.7
0°-90°	5100.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5100.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1935	1935	1935	1935	1935	
5°	1929	1930	1926	1934	1936	183
15°	1862	1865	1862	1870	1871	525
25°	1727	1727	1725	1733	1734	794
35°	1512	1513	1518	1528	1530	943
45°	1225	1227	1235	1252	1259	942
55°	895	901	909	918	920	797
65°	531	536	537	545	558	532
75°	262	259	247	242	242	282
85°	68	67	62	58	53	79
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1934.9	1934.9	1934.9	1934.9	1934.9
2.5°	1933.3	1934.9	1929.7	1939.0	1941.4
5°	1929.2	1929.7	1925.5	1934.1	1936.2
7.5°	1919.8	1920.6	1916.1	1925.5	1926.8
10°	1904.7	1906.2	1902.6	1911.2	1913.3
12.5°	1885.4	1887.5	1883.8	1893.2	1894.8
15°	1862.5	1864.6	1861.7	1869.5	1871.1
17.5°	1834.3	1835.9	1834.3	1841.6	1845.8
20°	1802.8	1802.8	1802.8	1809.3	1813.0
22.5°	1763.5	1767.1	1765.6	1774.2	1777.8
25°	1727.0	1727.0	1724.7	1732.7	1734.0
27.5°	1676.0	1681.7	1681.2	1688.2	1689.8
30°	1629.3	1630.9	1631.7	1636.6	1639.5
32.5°	1572.8	1574.1	1576.5	1583.5	1584.3
35°	1511.9	1513.4	1517.6	1528.3	1529.8
37.5°	1441.0	1448.8	1452.5	1463.9	1465.2
40°	1369.9	1374.8	1385.8	1397.8	1403.5
42.5°	1297.5	1303.2	1309.7	1326.1	1331.3
45°	1225.1	1227.1	1235.2	1251.6	1258.9
47.5°	1144.8	1151.3	1158.4	1172.7	1177.1
50°	1064.6	1071.6	1076.1	1088.8	1097.4
52.5°	983.6	990.1	995.1	1002.9	1011.5
55°	894.8	901.0	909.1	917.7	919.8
57.5°	804.4	811.4	816.6	825.7	835.1
60°	707.5	715.6	722.6	731.2	740.6
62.5°	617.3	620.7	628.0	642.4	655.9
65°	531.1	535.6	536.9	544.9	558.5
67.5°	459.5	459.5	453.0	455.8	471.0
70°	384.2	381.3	376.4	373.5	385.8
72.5°	323.3	319.6	308.9	304.0	310.5
75°	262.3	258.7	247.2	241.5	242.3
77.5°	210.7	205.0	195.6	185.7	183.6
80°	159.9	157.6	148.5	139.1	131.8
82.5°	113.3	108.4	103.2	97.4	91.7
85°	68.0	66.7	61.7	58.1	53.1
87.5°	27.9	27.9	26.6	25.0	23.7
90°	0.0	0.0	0.0	0.0	0.0







— 0°-180° - - 45°-225° - - - 90°-270°





(END OF REPORT)