

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: P1046862

Luminaire Tested: 22PTR-45-PLG-L850-UNV-STD-W

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1046862
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-45-PLG-L850-UNV-STD-W
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

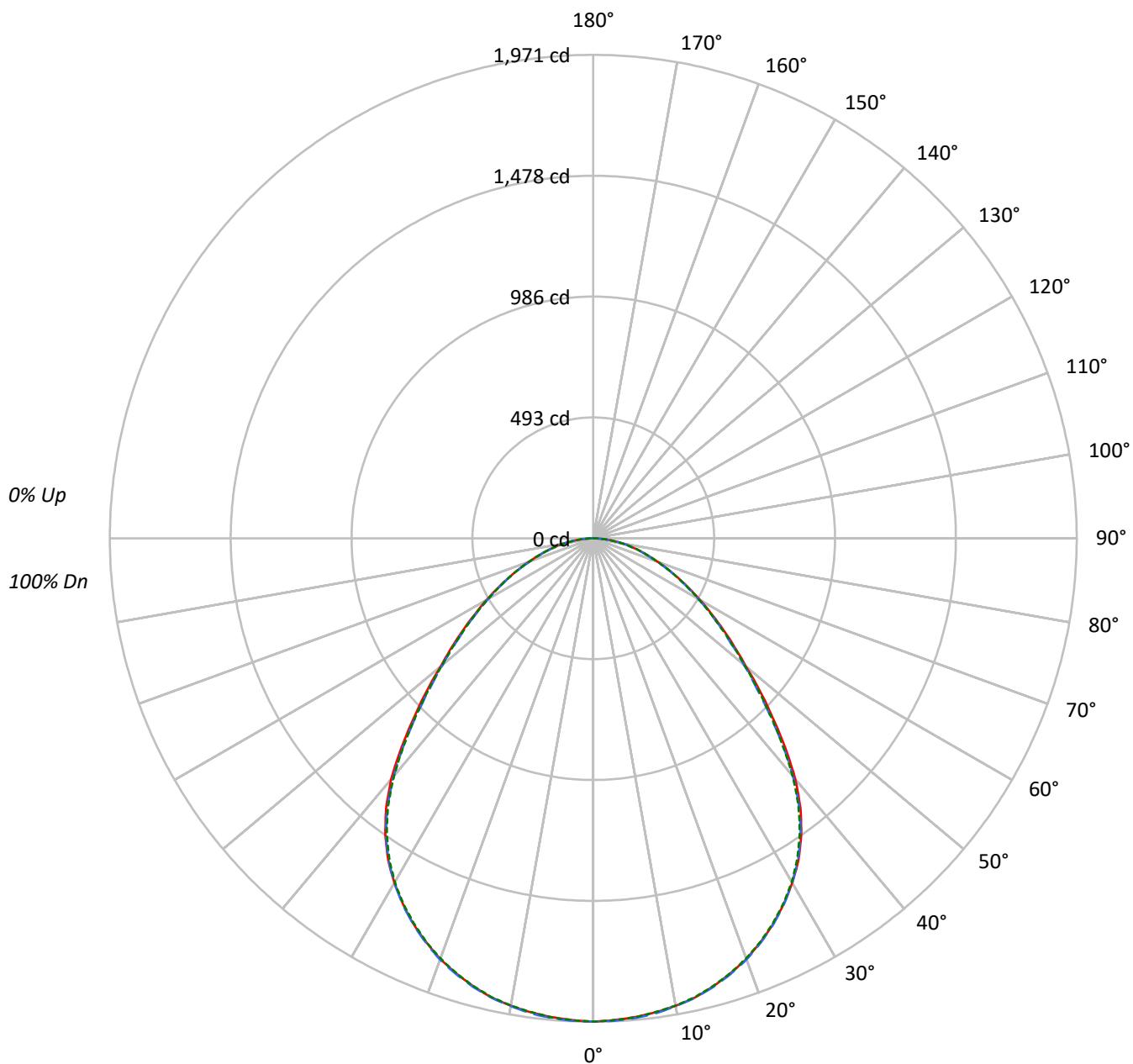
Lumens per Lamp: N/A
Luminaire Lumens: 4440.2 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: (L: 2' x W: 0' x H: 2'
CIE Type: Direct

Input Watts (W): 35
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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	110	106	102	98	107	103	100	97		99	96	94			95	93	91			92
2	101	94	87	82	99	92	86	81		88	84	79			85	81	78			82
3	93	83	76	70	91	82	75	69		79	73	68			76	71	67			74
4	86	75	67	60	84	73	66	60		71	64	59			69	63	58			67
5	79	67	59	53	77	66	58	53		64	57	52			62	56	51			61
6	74	61	53	47	72	60	52	47		58	51	46			57	51	46			55
7	69	56	48	42	67	55	47	42		54	46	41			52	46	41			51
8	64	51	43	38	62	51	43	38		49	42	37			48	42	37			47
9	60	47	39	34	59	47	39	34		46	39	34			44	38	34			43
10	56	44	36	31	55	43	36	31		42	36	31			41	35	31			40

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°	186.6	4.2
10°-20°	533.8	12.0
20°-30°	798.8	18.0
30°-40°	915.2	20.6
40°-50°	791.5	17.8
50°-60°	572.8	12.9
60°-70°	377.3	8.5
70°-80°	205.4	4.6
80°-90°	58.9	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°	1519.2	34.2
0°-40°	2434.4	54.8
0°-60°	3798.7	85.6
0°-90°	4440.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4440.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1971	1971	1971	1971	1971	
5°	1959	1964	1964	1964	1961	186
15°	1891	1892	1894	1896	1889	533
25°	1736	1736	1737	1738	1731	798
35°	1478	1477	1474	1473	1467	918
45°	1034	1031	1017	1015	1021	800
55°	643	640	634	629	635	579
65°	380	383	378	375	379	380
75°	194	194	192	192	194	207
85°	52	52	52	53	46	60
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1970.6	1970.6	1970.6	1970.6	1970.6
2.5°	1966.4	1970.6	1969.2	1970.6	1966.4
5°	1959.4	1963.6	1963.6	1963.6	1960.8
7.5°	1949.6	1952.4	1953.8	1955.2	1948.2
10°	1935.6	1938.4	1937.0	1939.8	1934.2
12.5°	1917.4	1917.4	1918.8	1921.6	1916.0
15°	1890.8	1892.2	1893.6	1896.4	1889.4
17.5°	1860.1	1861.5	1862.9	1864.3	1858.7
20°	1825.1	1825.1	1827.9	1829.3	1822.3
22.5°	1781.7	1781.7	1784.5	1788.7	1780.3
25°	1735.6	1735.6	1737.0	1738.4	1731.4
27.5°	1681.1	1681.1	1682.5	1686.6	1678.3
30°	1622.3	1620.9	1622.3	1623.7	1618.1
32.5°	1556.6	1555.2	1553.8	1555.2	1548.2
35°	1478.3	1476.9	1474.1	1472.7	1467.1
37.5°	1387.4	1384.6	1379.0	1379.0	1373.4
40°	1281.1	1274.1	1267.1	1264.3	1262.9
42.5°	1158.0	1152.4	1142.6	1141.2	1141.2
45°	1033.5	1030.7	1016.7	1015.3	1020.9
47.5°	921.6	914.6	902.1	899.3	907.7
50°	811.2	812.6	801.4	797.2	805.6
52.5°	724.4	721.6	711.9	709.1	716.1
55°	643.3	640.5	633.5	629.3	634.9
57.5°	569.2	567.8	560.8	559.4	562.2
60°	502.1	500.7	495.1	493.7	495.1
62.5°	439.1	439.1	433.5	430.8	434.9
65°	380.4	383.2	377.6	374.8	379.0
67.5°	327.3	330.1	324.5	321.7	327.3
70°	276.9	279.7	274.1	271.3	276.9
72.5°	233.6	235.0	230.8	229.4	236.4
75°	194.4	194.4	191.6	191.6	194.4
77.5°	158.0	156.6	155.2	155.2	152.4
80°	121.7	120.3	120.3	120.3	116.1
82.5°	86.7	83.9	85.3	86.7	79.7
85°	51.7	51.7	51.7	53.1	46.2
87.5°	21.0	21.0	19.6	21.0	18.2
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° - - - 90°-270°



(END OF REPORT)