

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: P1046904

Luminaire Tested: 22PTR-45-PP3-L850-UNV-STD-W

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1046904
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737727)
Test Lab: INNOVATION CENTER
Issue Date: 7/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22PTR-45-PP3-L850-UNV-STD-W
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND PRISM LENS

Light Source:
Ballast/Driver: -

Summary

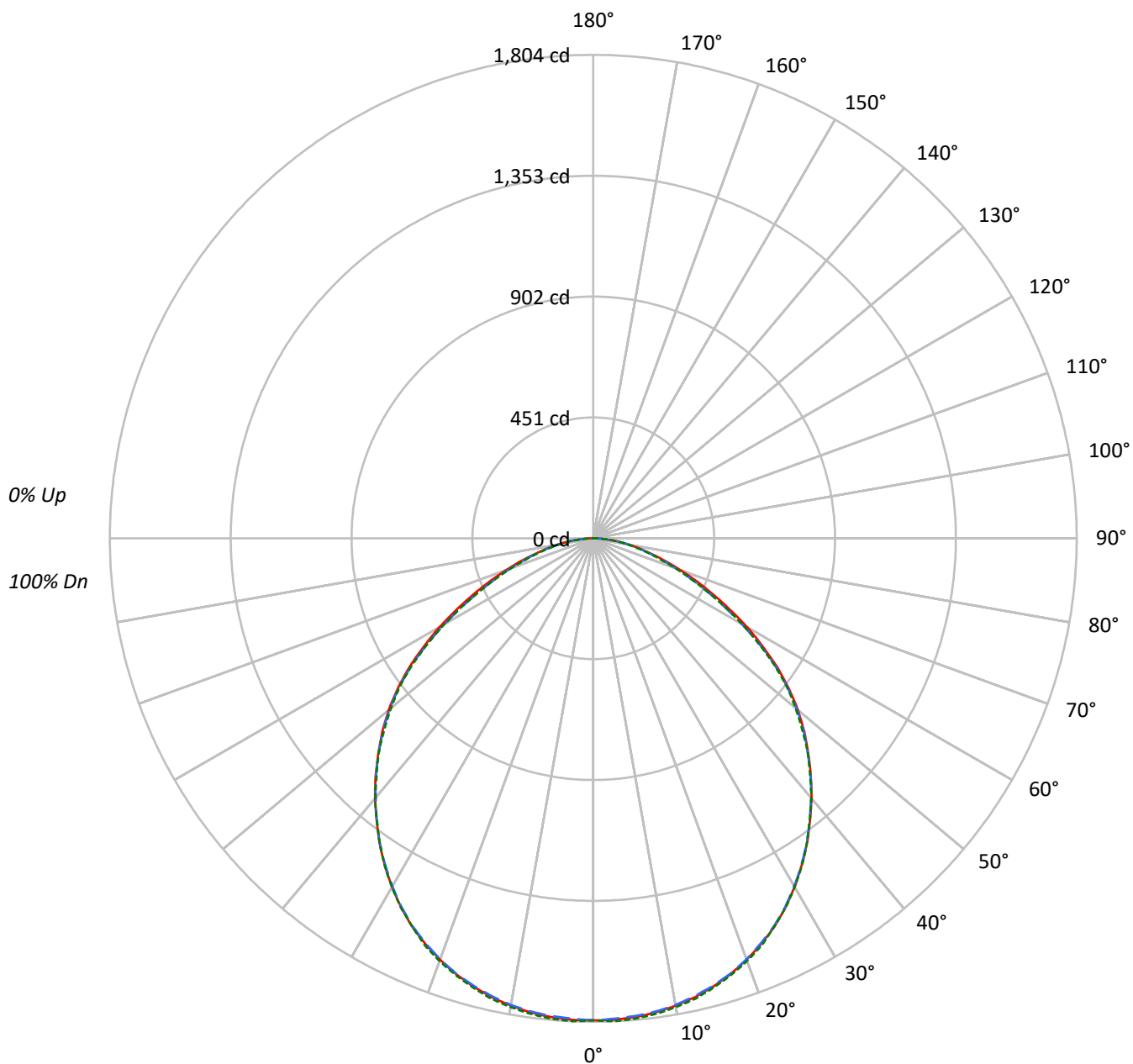
Lumens per Lamp: N/A
Luminaire Lumens: 4648.2 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.34
Luminous Opening: (L: 2 ' x W: 0 ' x H: 2 '
CIE Type: Direct

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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97		107	103	99	96		99	96	93		95	92	90		91	89	87
2	100	92	86	80		97	90	84	79		87	82	78		84	79	76		81	77	74
3	92	81	74	67		89	80	73	67		77	71	66		74	69	65		72	67	63
4	84	73	64	58		82	71	63	57		69	62	56		66	60	56		64	59	55
5	77	65	56	50		75	64	56	50		62	55	49		60	54	49		58	52	48
6	72	59	50	44		70	58	50	44		56	49	43		54	48	43		53	47	42
7	66	53	45	39		65	52	44	39		51	44	38		50	43	38		48	42	38
8	62	49	40	35		60	48	40	35		47	39	34		45	39	34		44	38	34
9	58	45	37	31		57	44	36	31		43	36	31		42	35	31		41	35	31
10	54	41	34	28		53	41	33	28		40	33	28		39	33	28		38	32	28

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°	170.6	3.7
10°-20°	488.8	10.5
20°-30°	735.8	15.8
30°-40°	868.5	18.7
40°-50°	873.5	18.8
50°-60°	737.4	15.9
60°-70°	473.6	10.2
70°-80°	235.5	5.1
80°-90°	64.5	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°	1395.2	30.0
0°-40°	2263.7	48.7
0°-60°	3874.6	83.4
0°-90°	4648.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4648.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1799	1799	1799	1799	1799	
5°	1794	1794	1790	1798	1800	170
15°	1731	1732	1728	1736	1736	488
25°	1599	1600	1597	1600	1598	736
35°	1390	1391	1388	1390	1390	869
45°	1134	1138	1131	1132	1132	875
55°	837	836	827	824	825	745
65°	492	484	467	462	466	490
75°	225	224	217	215	212	244
85°	56	57	57	54	54	65
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1799.0	1799.0	1799.0	1799.0	1799.0
2.5°	1798.3	1799.0	1794.3	1802.8	1804.2
5°	1793.8	1794.3	1789.8	1798.3	1799.5
7.5°	1784.6	1785.3	1781.2	1789.1	1790.5
10°	1770.8	1772.9	1768.2	1775.5	1776.7
12.5°	1753.9	1754.7	1749.9	1758.5	1759.9
15°	1731.2	1731.6	1727.8	1735.7	1735.7
17.5°	1704.8	1705.5	1702.9	1709.6	1708.9
20°	1673.0	1674.9	1671.6	1676.1	1678.7
22.5°	1638.4	1639.1	1635.1	1641.0	1643.6
25°	1599.2	1599.7	1596.6	1599.7	1598.5
27.5°	1553.4	1554.6	1550.1	1553.4	1554.2
30°	1502.4	1505.8	1499.3	1502.0	1502.4
32.5°	1447.6	1449.5	1445.0	1445.7	1449.0
35°	1390.2	1390.9	1388.3	1389.5	1389.5
37.5°	1328.3	1330.9	1326.8	1328.7	1326.1
40°	1266.8	1264.2	1262.8	1264.2	1266.1
42.5°	1202.0	1202.8	1200.9	1199.4	1196.3
45°	1134.2	1138.2	1130.9	1132.3	1132.3
47.5°	1067.7	1068.2	1064.4	1060.4	1057.8
50°	996.6	996.6	991.8	988.7	984.7
52.5°	918.7	917.5	912.3	909.0	910.9
55°	837.1	836.4	827.4	824.1	824.8
57.5°	747.7	749.1	735.3	732.0	732.0
60°	662.2	655.6	639.9	635.4	641.1
62.5°	572.5	564.7	547.9	547.9	552.4
65°	491.6	484.5	467.0	462.2	466.2
67.5°	415.9	409.3	393.2	390.6	391.7
70°	344.0	338.4	328.4	322.5	324.6
72.5°	282.1	276.9	270.3	265.7	263.1
75°	225.2	224.0	216.9	214.7	212.1
77.5°	178.2	177.7	171.8	169.2	166.6
80°	133.8	133.1	131.9	127.9	126.0
82.5°	95.4	95.4	94.7	91.4	89.5
85°	55.5	57.4	57.4	54.1	54.1
87.5°	22.3	23.5	22.3	22.3	21.6
90°	0.0	0.0	0.0	0.0	0.0







— 0°-180° - - 45°-225° - - - 90°-270°



(END OF REPORT)