

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: P1046694

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

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1046694
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2310-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22PTR-45-L850-UNV-STD-W
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

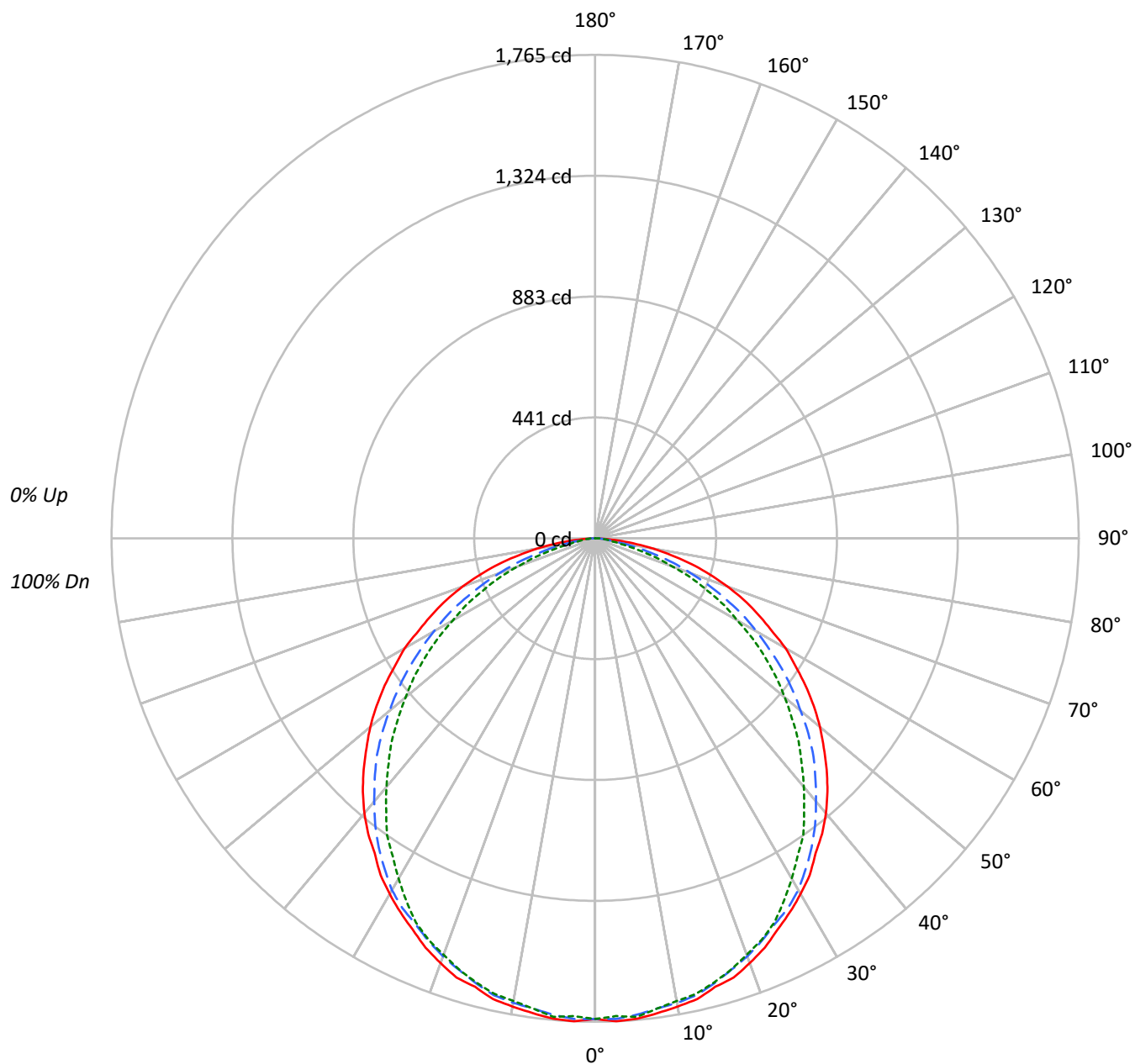
Lumens per Lamp: N/A
Luminaire Lumens: 4673.9 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35
Luminous Opening: (L: 2 ' x W: 0 ' x H: 2 '
CIE Type: Direct

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	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	95	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52		
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40		
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35		
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31		
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	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°	166.3	3.6
10°-20°	476.0	10.2
20°-30°	718.9	15.4
30°-40°	854.8	18.3
40°-50°	866.9	18.5
50°-60°	752.8	16.1
60°-70°	534.4	11.4
70°-80°	255.4	5.5
80°-90°	48.4	1.0
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°	1361.2	29.1
0°-40°	2216.0	47.4
0°-60°	3835.7	82.1
0°-90°	4673.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4673.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1755	1755	1755	1755	1755	
5°	1761	1755	1746	1750	1754	167
15°	1695	1699	1682	1679	1678	480
25°	1576	1574	1553	1559	1548	728
35°	1402	1400	1377	1330	1324	881
45°	1194	1184	1128	1068	1050	921
55°	937	909	833	784	757	838
65°	655	606	527	470	452	649
75°	365	298	222	176	156	382
85°	71	38	32	31	30	90
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1754.7	1754.7	1754.7	1754.7	1754.7
2.5°	1765.1	1758.9	1756.8	1764.1	1746.3
5°	1761.0	1754.7	1746.3	1750.5	1753.6
7.5°	1748.4	1743.2	1731.7	1741.1	1731.7
10°	1735.9	1730.7	1722.3	1725.4	1715.0
12.5°	1723.3	1710.8	1708.7	1710.8	1703.5
15°	1695.1	1699.3	1681.5	1679.4	1678.4
17.5°	1681.5	1671.1	1652.3	1653.3	1651.2
20°	1650.2	1637.6	1624.1	1622.0	1617.8
22.5°	1617.8	1603.2	1590.6	1596.9	1587.5
25°	1576.0	1573.9	1553.0	1559.3	1547.8
27.5°	1539.4	1532.1	1522.7	1509.1	1492.4
30°	1499.7	1492.4	1483.0	1447.4	1434.9
32.5°	1457.9	1449.5	1430.7	1388.9	1375.3
35°	1402.5	1400.4	1377.4	1330.4	1324.1
37.5°	1360.7	1337.7	1318.9	1270.8	1253.1
40°	1310.5	1298.0	1254.1	1208.1	1185.1
42.5°	1255.1	1240.5	1190.3	1141.2	1116.1
45°	1194.5	1184.1	1127.6	1068.1	1050.3
47.5°	1131.8	1122.4	1055.5	998.1	975.1
50°	1071.2	1059.7	979.2	923.9	903.0
52.5°	1005.4	986.6	907.1	852.8	832.9
55°	937.4	909.2	832.9	783.8	756.6
57.5°	865.3	839.2	754.6	703.3	681.4
60°	802.6	766.0	679.3	627.0	598.8
62.5°	722.2	690.8	608.2	546.6	533.0
65°	655.3	606.1	526.7	470.3	452.5
67.5°	587.3	529.9	449.4	391.9	382.5
70°	513.1	453.6	371.0	314.6	298.9
72.5°	437.9	379.4	298.9	239.3	229.9
75°	364.7	297.8	221.6	175.6	155.7
77.5°	285.3	224.7	155.7	107.6	95.1
80°	212.2	151.5	89.9	63.8	62.7
82.5°	139.0	87.8	48.1	49.1	47.0
85°	71.1	37.6	32.4	31.4	30.3
87.5°	13.6	14.6	15.7	15.7	15.7
90°	0.0	0.0	0.0	0.0	0.0





— 0°-180° - - 45°-225° - - - 90°-270°



(END OF REPORT)