

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: P1046689

Luminaire Tested: 22PTR-45-L840-UNV-STD-W

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1046689
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-L840-UNV-STD-W
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

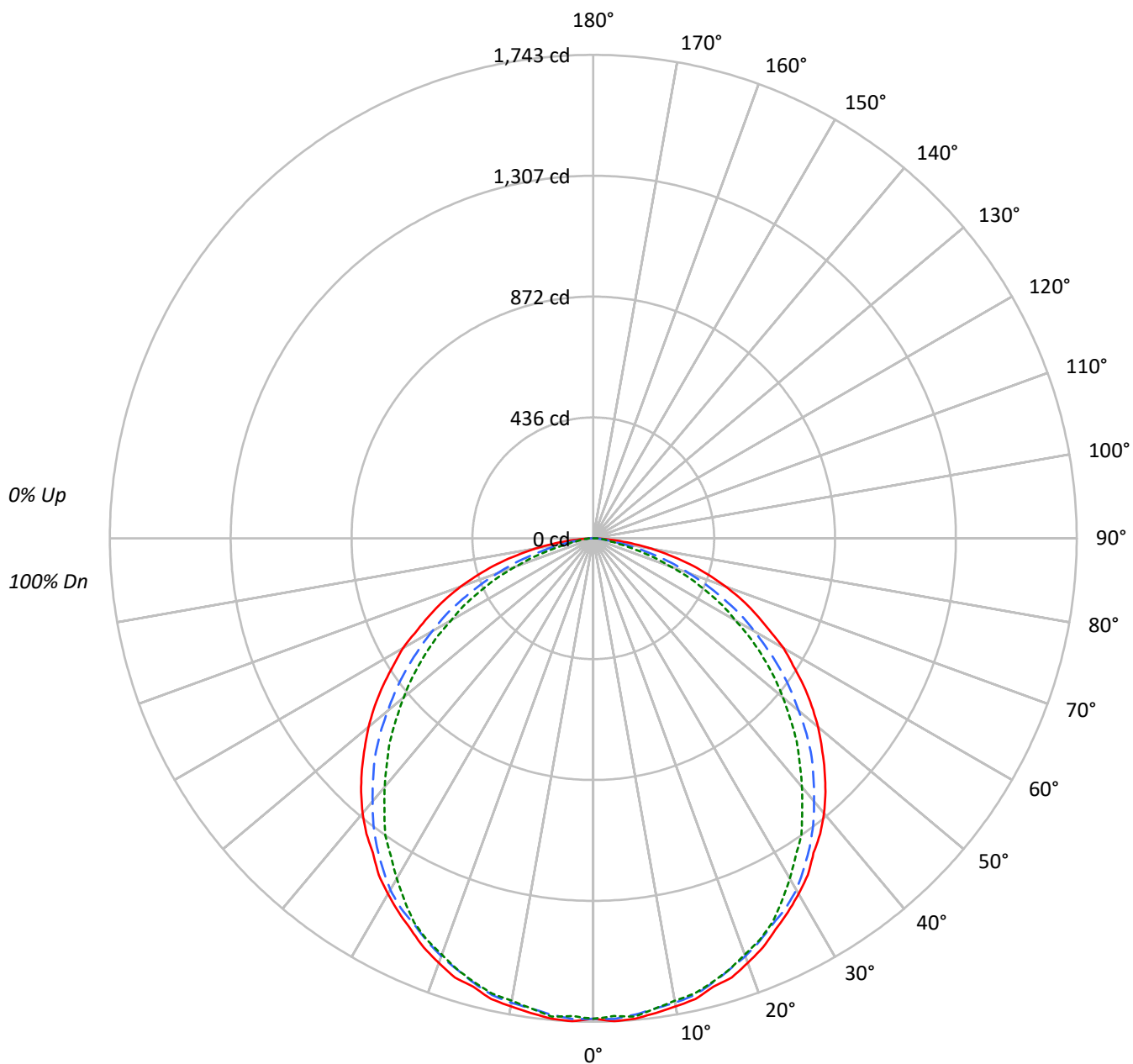
Lumens per Lamp: N/A
Luminaire Lumens: 4614.5 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35
Luminous Opening: (L: 2 ' x W: 0 ' x H: 2 '
CIE Type: Direct

Input Watts (W): 35
Input Voltage (V): 120
Input Current (A_{in}): 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°	164.2	3.6
10°-20°	469.9	10.2
20°-30°	709.8	15.4
30°-40°	843.9	18.3
40°-50°	855.9	18.5
50°-60°	743.2	16.1
60°-70°	527.6	11.4
70°-80°	252.1	5.5
80°-90°	47.8	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°	1343.9	29.1
0°-40°	2187.9	47.4
0°-60°	3787.0	82.1
0°-90°	4614.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4614.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1732	1732	1732	1732	1732	
5°	1739	1732	1724	1728	1731	165
15°	1674	1678	1660	1658	1657	474
25°	1556	1554	1533	1540	1528	719
35°	1385	1383	1360	1314	1307	870
45°	1179	1169	1113	1054	1037	910
55°	926	898	822	774	747	827
65°	647	598	520	464	447	641
75°	360	294	219	173	154	378
85°	70	37	32	31	30	88
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1732.4	1732.4	1732.4	1732.4	1732.4
2.5°	1742.7	1736.5	1734.5	1741.7	1724.2
5°	1738.6	1732.4	1724.2	1728.3	1731.4
7.5°	1726.2	1721.1	1709.7	1719.0	1709.7
10°	1713.8	1708.7	1700.4	1703.5	1693.2
12.5°	1701.5	1689.1	1687.0	1689.1	1681.8
15°	1673.6	1677.7	1660.2	1658.1	1657.1
17.5°	1660.2	1649.9	1631.3	1632.3	1630.3
20°	1629.2	1616.8	1603.4	1601.4	1597.2
22.5°	1597.2	1582.8	1570.4	1576.6	1567.3
25°	1556.0	1553.9	1533.3	1539.5	1528.1
27.5°	1519.9	1512.6	1503.3	1489.9	1473.4
30°	1480.6	1473.4	1464.1	1429.1	1416.7
32.5°	1439.4	1431.1	1412.5	1371.3	1357.9
35°	1384.7	1382.6	1359.9	1313.5	1307.3
37.5°	1343.4	1320.7	1302.1	1254.7	1237.1
40°	1293.9	1281.5	1238.2	1192.8	1170.1
42.5°	1239.2	1224.8	1175.2	1126.7	1102.0
45°	1179.4	1169.0	1113.3	1054.5	1037.0
47.5°	1117.4	1108.2	1042.1	985.4	962.7
50°	1057.6	1046.3	966.8	912.1	891.5
52.5°	992.6	974.0	895.6	842.0	822.4
55°	925.5	897.7	822.4	773.9	747.0
57.5°	854.3	828.5	745.0	694.4	672.7
60°	792.4	756.3	670.7	619.1	591.2
62.5°	713.0	682.0	600.5	539.6	526.2
65°	646.9	598.4	520.0	464.3	446.8
67.5°	579.9	523.1	443.7	386.9	377.6
70°	506.6	447.8	366.3	310.6	295.1
72.5°	432.3	374.5	295.1	236.3	227.0
75°	360.1	294.1	218.7	173.3	153.7
77.5°	281.7	221.8	153.7	106.3	93.9
80°	209.5	149.6	88.7	62.9	61.9
82.5°	137.2	86.7	47.5	48.5	46.4
85°	70.2	37.1	32.0	31.0	29.9
87.5°	13.4	14.4	15.5	15.5	15.5
90°	0.0	0.0	0.0	0.0	0.0





— 0°-180° - - 45°-225° - - - 90°-270°





(END OF REPORT)