

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: P1050854

Luminaire Tested: 24PTR-45-PP3-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050854
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737727)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-45-PP3-L830-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND PRISM LENS

Light Source:
Ballast/Driver: -

Summary

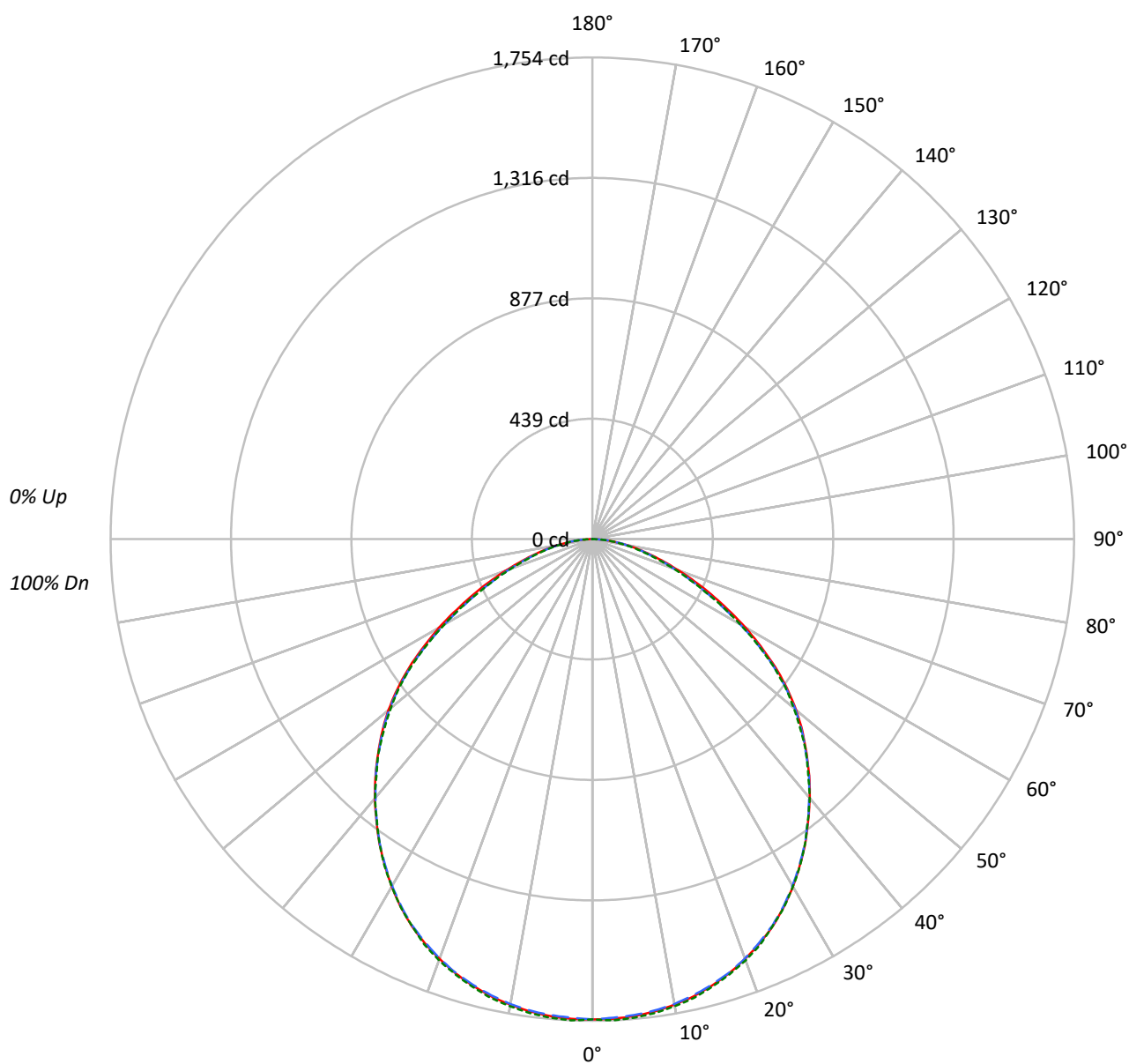
Lumens per Lamp: N/A
Luminaire Lumens: 4519.2 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37
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	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	61		
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53		
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	52	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	42	40		
7	66	53	45	39	65	52	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32		
9	58	45	37	31	57	44	36	31	43	36	31	42	35	31	41	35	31	29		
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2353	2353	2353
5°	2355	2350	2363
10°	2352	2349	2360
15°	2344	2340	2351
20°	2329	2327	2337
25°	2308	2305	2307
30°	2269	2265	2269
35°	2220	2217	2219
40°	2163	2156	2162
45°	2098	2092	2095
50°	2028	2018	2004
55°	1909	1887	1881
60°	1733	1674	1677
65°	1522	1445	1443
70°	1316	1256	1242
75°	1138	1096	1072
80°	1008	994	949
85°	834	861	812

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 2106 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.9	3.7
10°-20°	475.2	10.5
20°-30°	715.4	15.8
30°-40°	844.4	18.7
40°-50°	849.2	18.8
50°-60°	716.9	15.9
60°-70°	460.4	10.2
70°-80°	229.0	5.1
80°-90°	62.7	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°	1356.5	30.0
0°-40°	2200.9	48.7
0°-60°	3767.1	83.4
0°-90°	4519.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4519.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1749	1749	1749	1749	1749	
5°	1744	1744	1740	1748	1750	166
15°	1683	1684	1680	1688	1688	475
25°	1555	1555	1552	1555	1554	715
35°	1352	1352	1350	1351	1351	845
45°	1103	1107	1100	1101	1101	851
55°	814	813	804	801	802	724
65°	478	471	454	449	453	477
75°	219	218	211	209	206	237
85°	54	56	56	53	53	63
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1749.1	1749.1	1749.1	1749.1	1749.1
2.5°	1748.4	1749.1	1744.5	1752.8	1754.2
5°	1744.0	1744.5	1740.1	1748.4	1749.6
7.5°	1735.0	1735.7	1731.8	1739.4	1740.8
10°	1721.6	1723.7	1719.1	1726.3	1727.4
12.5°	1705.3	1706.0	1701.3	1709.6	1711.0
15°	1683.1	1683.6	1679.9	1687.5	1687.5
17.5°	1657.5	1658.2	1655.7	1662.1	1661.4
20°	1626.6	1628.4	1625.2	1629.6	1632.1
22.5°	1592.9	1593.6	1589.7	1595.5	1598.0
25°	1554.9	1555.3	1552.3	1555.3	1554.2
27.5°	1510.3	1511.5	1507.1	1510.3	1511.0
30°	1460.7	1464.0	1457.7	1460.3	1460.7
32.5°	1407.4	1409.3	1404.9	1405.6	1408.8
35°	1351.6	1352.3	1349.8	1350.9	1350.9
37.5°	1291.4	1293.9	1290.0	1291.9	1289.3
40°	1231.7	1229.1	1227.7	1229.1	1231.0
42.5°	1168.7	1169.4	1167.5	1166.1	1163.1
45°	1102.7	1106.6	1099.5	1100.9	1100.9
47.5°	1038.1	1038.6	1034.9	1031.0	1028.4
50°	968.9	968.9	964.3	961.3	957.4
52.5°	893.2	892.1	887.0	883.8	885.6
55°	813.9	813.2	804.4	801.2	801.9
57.5°	726.9	728.3	714.9	711.7	711.7
60°	643.9	637.4	622.2	617.8	623.3
62.5°	556.7	549.0	532.7	532.7	537.0
65°	478.0	471.1	454.0	449.4	453.3
67.5°	404.4	397.9	382.3	379.7	380.9
70°	334.5	329.0	319.3	313.5	315.6
72.5°	274.3	269.2	262.8	258.4	255.8
75°	218.9	217.8	210.9	208.8	206.2
77.5°	173.2	172.8	167.0	164.5	161.9
80°	130.1	129.4	128.3	124.3	122.5
82.5°	92.7	92.7	92.0	88.8	87.0
85°	54.0	55.8	55.8	52.6	52.6
87.5°	21.7	22.8	21.7	21.7	21.0
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)