

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: P1050931

Luminaire Tested: 24PTR-45-PR1-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050931
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737735)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-45-PR1-L830-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND RIPPLE LENS

Light Source:
Ballast/Driver: -

Summary

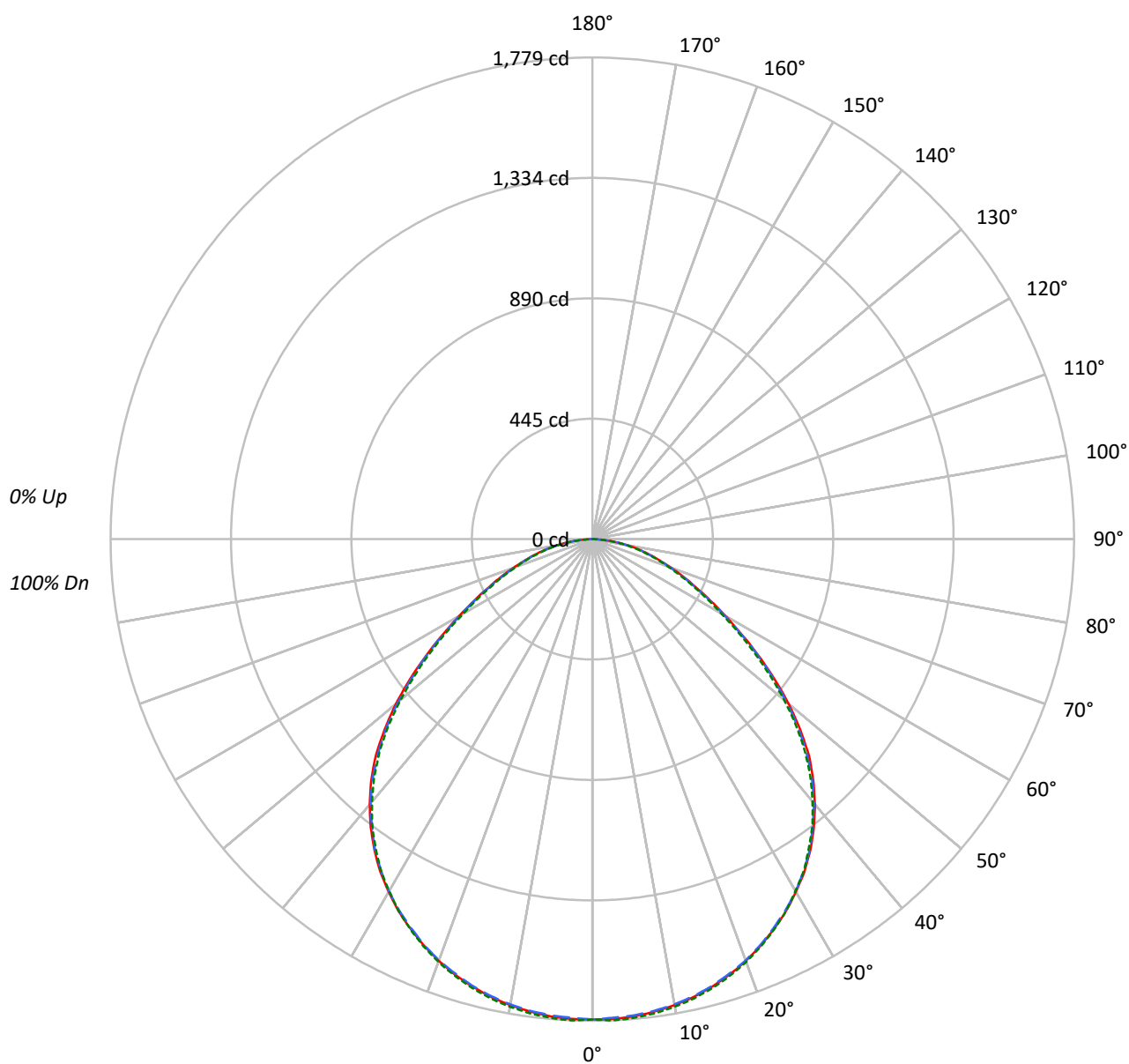
Lumens per Lamp: N/A
Luminaire Lumens: 4487.2 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62		
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54		
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	47		
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41		
7	67	54	45	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37		
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33		
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30		
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2387	2387	2387
5°	2390	2384	2397
10°	2388	2383	2396
15°	2383	2379	2391
20°	2373	2370	2379
25°	2358	2352	2360
30°	2337	2334	2331
35°	2304	2299	2290
40°	2246	2237	2222
45°	2153	2128	2113
50°	1981	1958	1934
55°	1753	1745	1711
60°	1523	1518	1477
65°	1343	1334	1308
70°	1218	1201	1176
75°	1128	1102	1081
80°	1030	1015	981
85°	814	806	773

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2153 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.3	3.8
10°-20°	483.1	10.8
20°-30°	731.8	16.3
30°-40°	873.7	19.5
40°-50°	859.2	19.1
50°-60°	664.1	14.8
60°-70°	418.7	9.3
70°-80°	226.5	5.0
80°-90°	61.9	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°	1383.2	30.8
0°-40°	2256.9	50.3
0°-60°	3780.1	84.2
0°-90°	4487.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4487.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1774	1774	1774	1774	1774	
5°	1769	1770	1765	1773	1775	168
15°	1711	1711	1708	1714	1716	483
25°	1588	1589	1584	1589	1590	732
35°	1403	1404	1400	1398	1394	876
45°	1131	1127	1119	1110	1110	866
55°	747	754	744	732	730	671
65°	422	422	419	412	411	424
75°	217	214	212	213	208	230
85°	53	53	52	53	50	63
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1774.3	1774.3	1774.3	1774.3	1774.3
2.5°	1773.6	1774.3	1769.2	1777.5	1779.4
5°	1769.2	1769.9	1765.3	1772.9	1775.0
7.5°	1760.2	1761.6	1757.2	1764.8	1766.7
10°	1747.5	1748.9	1744.5	1752.1	1754.0
12.5°	1731.8	1732.3	1728.6	1735.5	1737.3
15°	1710.8	1711.2	1708.2	1713.8	1716.3
17.5°	1686.5	1687.2	1682.8	1689.7	1690.9
20°	1657.4	1657.9	1655.3	1661.1	1661.8
22.5°	1624.8	1626.2	1622.3	1627.4	1628.1
25°	1588.1	1589.2	1584.2	1589.2	1589.9
27.5°	1549.3	1549.7	1545.3	1549.3	1548.6
30°	1504.0	1507.9	1502.1	1500.7	1500.3
32.5°	1457.1	1457.5	1452.0	1450.6	1453.1
35°	1403.0	1403.5	1399.8	1397.9	1394.0
37.5°	1343.8	1343.8	1336.7	1335.5	1334.8
40°	1278.9	1278.2	1273.8	1269.4	1264.8
42.5°	1208.2	1209.6	1200.6	1193.0	1191.8
45°	1131.3	1126.9	1118.6	1109.8	1110.5
47.5°	1040.5	1041.6	1030.3	1023.1	1021.3
50°	946.2	946.2	935.6	927.9	924.0
52.5°	847.8	848.5	838.3	828.1	826.0
55°	747.2	753.5	744.0	732.0	729.5
57.5°	653.2	658.3	649.3	636.6	635.9
60°	566.1	566.6	564.0	552.0	548.8
62.5°	491.7	488.5	487.1	480.8	476.9
65°	421.7	422.4	419.1	412.0	410.8
67.5°	365.1	364.4	358.6	354.2	351.7
70°	309.6	307.8	305.2	301.5	299.0
72.5°	260.2	260.2	258.1	256.9	252.5
75°	217.0	214.4	211.9	213.0	208.0
77.5°	175.6	173.1	171.0	168.4	167.3
80°	132.9	130.3	131.0	127.1	126.6
82.5°	92.2	92.2	91.0	87.8	88.5
85°	52.7	53.4	52.2	52.7	50.1
87.5°	19.2	19.6	21.0	19.6	19.6
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)