

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: P1050987

Luminaire Tested: 24PTR-50-PR1-L935-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050987
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-50-PR1-L935-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 90 CRI LEDS AND RIPPLE LENS

Light Source:
Ballast/Driver: -

Summary

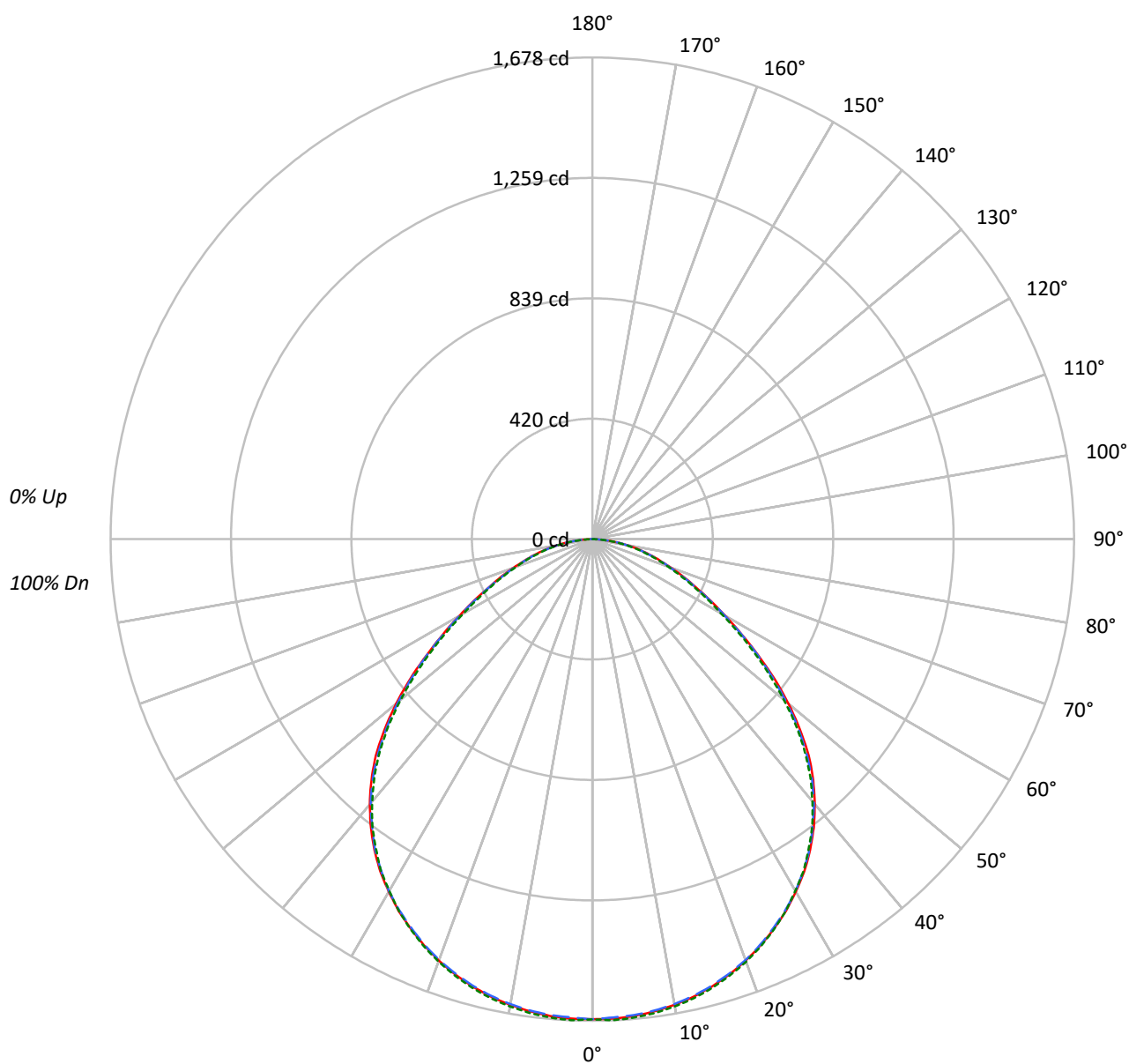
Lumens per Lamp: N/A
Luminaire Lumens: 4230.2 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41
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	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	88	88	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	73
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	64	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	56	56	54
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	49	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	43	43	41
7	67	54	45	40	65	53	45	39	52	44	39	50	44	39	49	43	39	39	39	37
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	35	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	31	31	30
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	29	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2251	2251	2251
5°	2253	2248	2260
10°	2251	2247	2259
15°	2247	2243	2254
20°	2237	2234	2243
25°	2223	2217	2225
30°	2203	2200	2197
35°	2172	2167	2158
40°	2118	2109	2094
45°	2029	2007	1992
50°	1867	1846	1823
55°	1652	1645	1613
60°	1436	1431	1392
65°	1266	1258	1233
70°	1148	1132	1109
75°	1063	1038	1019
80°	970	957	925
85°	767	760	730

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2029 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.7	3.8
10°-20°	455.4	10.8
20°-30°	689.9	16.3
30°-40°	823.6	19.5
40°-50°	810.0	19.1
50°-60°	626.0	14.8
60°-70°	394.7	9.3
70°-80°	213.5	5.0
80°-90°	58.3	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°	1304.0	30.8
0°-40°	2127.6	50.3
0°-60°	3563.6	84.2
0°-90°	4230.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4230.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1673	1673	1673	1673	1673	
5°	1668	1668	1664	1671	1673	159
15°	1613	1613	1610	1616	1618	455
25°	1497	1498	1493	1498	1499	690
35°	1323	1323	1320	1318	1314	826
45°	1066	1062	1054	1046	1047	817
55°	704	710	701	690	688	632
65°	398	398	395	388	387	400
75°	204	202	200	201	196	217
85°	50	50	49	50	47	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1672.7	1672.7	1672.7	1672.7	1672.7
2.5°	1672.0	1672.7	1667.9	1675.7	1677.5
5°	1667.9	1668.5	1664.2	1671.4	1673.3
7.5°	1659.4	1660.7	1656.6	1663.7	1665.5
10°	1647.4	1648.7	1644.6	1651.8	1653.5
12.5°	1632.6	1633.0	1629.5	1636.1	1637.8
15°	1612.8	1613.2	1610.4	1615.6	1618.0
17.5°	1589.9	1590.6	1586.4	1592.9	1594.0
20°	1562.5	1562.9	1560.5	1565.9	1566.6
22.5°	1531.7	1533.0	1529.3	1534.1	1534.8
25°	1497.1	1498.2	1493.4	1498.2	1498.8
27.5°	1460.5	1460.9	1456.8	1460.5	1459.9
30°	1417.8	1421.5	1416.1	1414.8	1414.3
32.5°	1373.6	1374.0	1368.8	1367.5	1369.9
35°	1322.6	1323.1	1319.6	1317.8	1314.1
37.5°	1266.9	1266.9	1260.1	1259.0	1258.4
40°	1205.7	1205.0	1200.9	1196.7	1192.4
42.5°	1139.0	1140.3	1131.8	1124.6	1123.5
45°	1066.5	1062.3	1054.5	1046.2	1046.9
47.5°	980.9	982.0	971.3	964.5	962.8
50°	892.0	892.0	882.0	874.8	871.1
52.5°	799.2	799.9	790.3	780.7	778.7
55°	704.4	710.3	701.4	690.1	687.7
57.5°	615.8	620.6	612.1	600.1	599.5
60°	533.7	534.1	531.7	520.4	517.3
62.5°	463.5	460.5	459.2	453.3	449.6
65°	397.5	398.2	395.1	388.4	387.3
67.5°	344.2	343.5	338.1	333.9	331.5
70°	291.9	290.1	287.7	284.3	281.9
72.5°	245.3	245.3	243.3	242.2	238.1
75°	204.5	202.1	199.7	200.8	196.0
77.5°	165.5	163.2	161.2	158.8	157.7
80°	125.2	122.9	123.5	119.8	119.4
82.5°	86.9	86.9	85.8	82.8	83.4
85°	49.7	50.3	49.2	49.7	47.3
87.5°	18.1	18.5	19.8	18.5	18.5
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)