

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: P1050591

Luminaire Tested: 24PTR-50-PB1-L930-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050591
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737703)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-50-PB1-L930-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 90 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

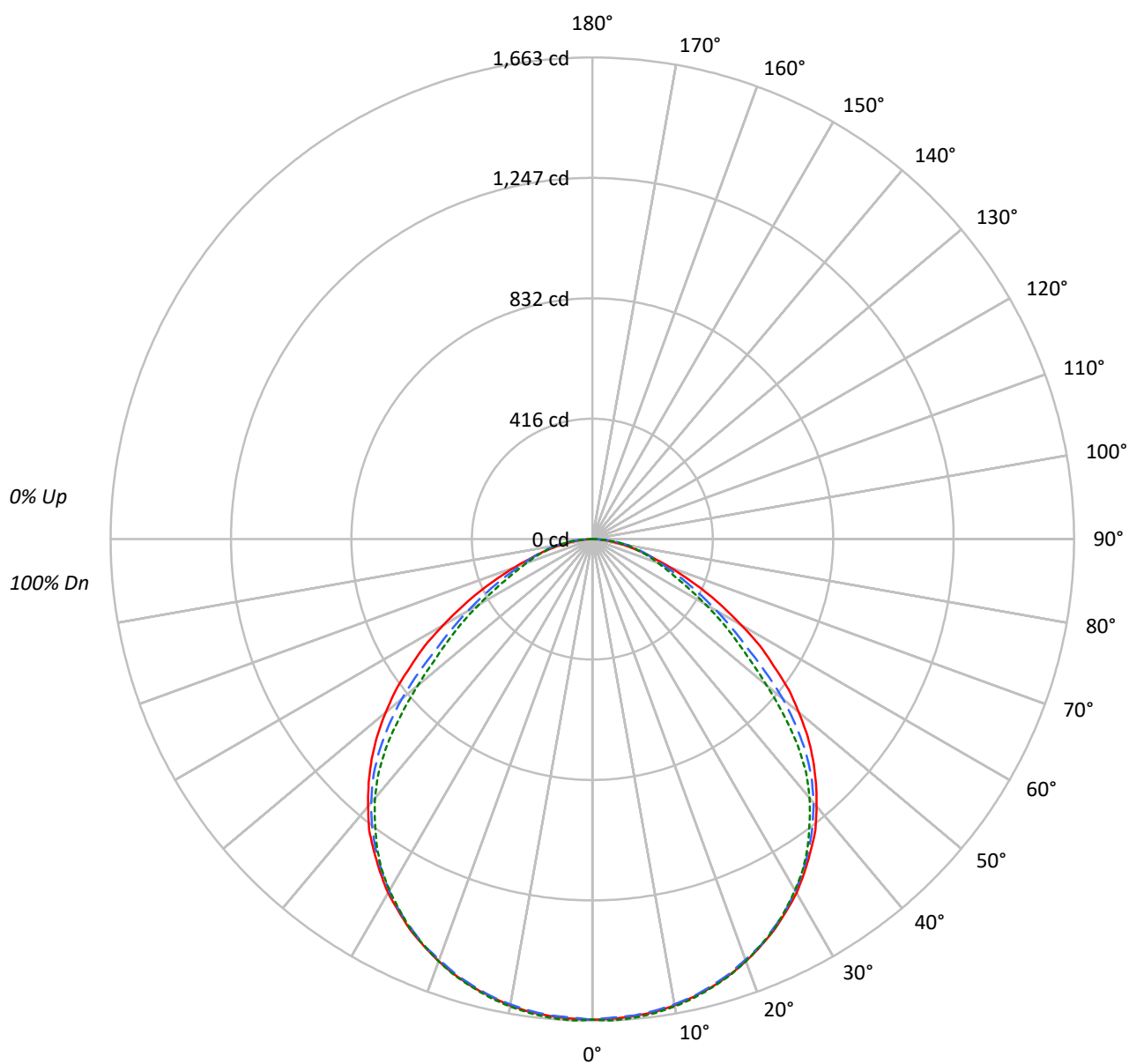
Lumens per Lamp: N/A
Luminaire Lumens: 4137.1 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64	62		
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54		
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47		
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42		
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37		
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	33		
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30		
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2232	2232	2232
5°	2232	2230	2241
10°	2233	2228	2239
15°	2229	2223	2231
20°	2221	2212	2221
25°	2209	2199	2205
30°	2191	2178	2175
35°	2159	2142	2129
40°	2115	2086	2050
45°	2050	1984	1903
50°	1948	1798	1644
55°	1795	1527	1417
60°	1598	1335	1214
65°	1371	1157	1033
70°	1132	1020	947
75°	954	976	923
80°	807	996	949
85°	631	1008	883

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2050 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.3	3.8
10°-20°	451.4	10.9
20°-30°	683.8	16.5
30°-40°	814.7	19.7
40°-50°	796.7	19.3
50°-60°	602.7	14.6
60°-70°	370.3	8.9
70°-80°	197.3	4.8
80°-90°	62.9	1.5
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°	1292.5	31.2
0°-40°	2107.2	50.9
0°-60°	3506.6	84.8
0°-90°	4137.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4137.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1659	1659	1659	1659	1659	
5°	1653	1655	1651	1657	1659	157
15°	1600	1602	1596	1602	1602	452
25°	1488	1486	1482	1484	1486	685
35°	1314	1312	1304	1298	1296	822
45°	1077	1071	1043	1008	1000	829
55°	765	726	651	614	604	685
65°	431	396	363	335	325	428
75°	184	186	188	182	178	197
85°	41	53	65	61	57	49
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1659.1	1659.1	1659.1	1659.1	1659.1
2.5°	1657.2	1659.1	1652.9	1661.2	1663.2
5°	1652.9	1655.0	1651.0	1657.2	1659.1
7.5°	1646.9	1646.9	1642.8	1648.8	1651.0
10°	1634.7	1634.7	1630.6	1636.6	1638.7
12.5°	1618.4	1618.4	1616.3	1620.3	1622.5
15°	1600.0	1601.9	1595.9	1601.9	1601.9
17.5°	1577.5	1575.5	1573.4	1577.5	1579.6
20°	1550.9	1550.9	1544.9	1549.0	1550.9
22.5°	1520.3	1520.3	1518.3	1520.3	1518.3
25°	1487.7	1485.6	1481.5	1483.6	1485.6
27.5°	1448.9	1448.9	1444.9	1444.9	1442.7
30°	1410.2	1408.0	1402.0	1397.9	1399.9
32.5°	1363.2	1361.1	1355.1	1351.0	1352.9
35°	1314.2	1312.2	1304.1	1297.9	1296.0
37.5°	1265.3	1259.1	1248.8	1240.7	1232.5
40°	1204.0	1197.8	1187.8	1169.3	1167.2
42.5°	1142.8	1136.8	1120.3	1098.0	1091.8
45°	1077.4	1071.4	1042.7	1008.0	999.9
47.5°	1008.0	997.9	953.0	910.1	893.8
50°	930.7	912.2	859.1	804.1	785.6
52.5°	855.0	822.5	753.1	704.0	685.8
55°	765.3	726.5	651.1	614.2	604.0
57.5°	685.8	632.7	571.4	534.8	526.6
60°	593.9	544.8	496.0	463.2	451.0
62.5°	510.1	467.3	426.6	397.9	383.7
65°	430.6	395.9	363.4	334.6	324.6
67.5°	353.1	334.6	308.1	285.8	279.6
70°	287.7	277.4	259.2	249.0	240.8
72.5°	228.6	232.7	220.5	216.4	210.2
75°	183.6	185.7	187.7	181.7	177.6
77.5°	138.8	148.9	157.0	153.0	148.9
80°	104.1	114.2	128.5	122.5	122.5
82.5°	71.3	83.8	96.0	91.9	89.8
85°	40.9	53.1	65.3	61.3	57.2
87.5°	16.3	26.6	28.5	28.5	26.6
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)