

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: P1050998

Luminaire Tested: 24PTR-50-PR1-L940-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050998
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-L940-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND RIPPLE LENS

Light Source:
Ballast/Driver: -

Summary

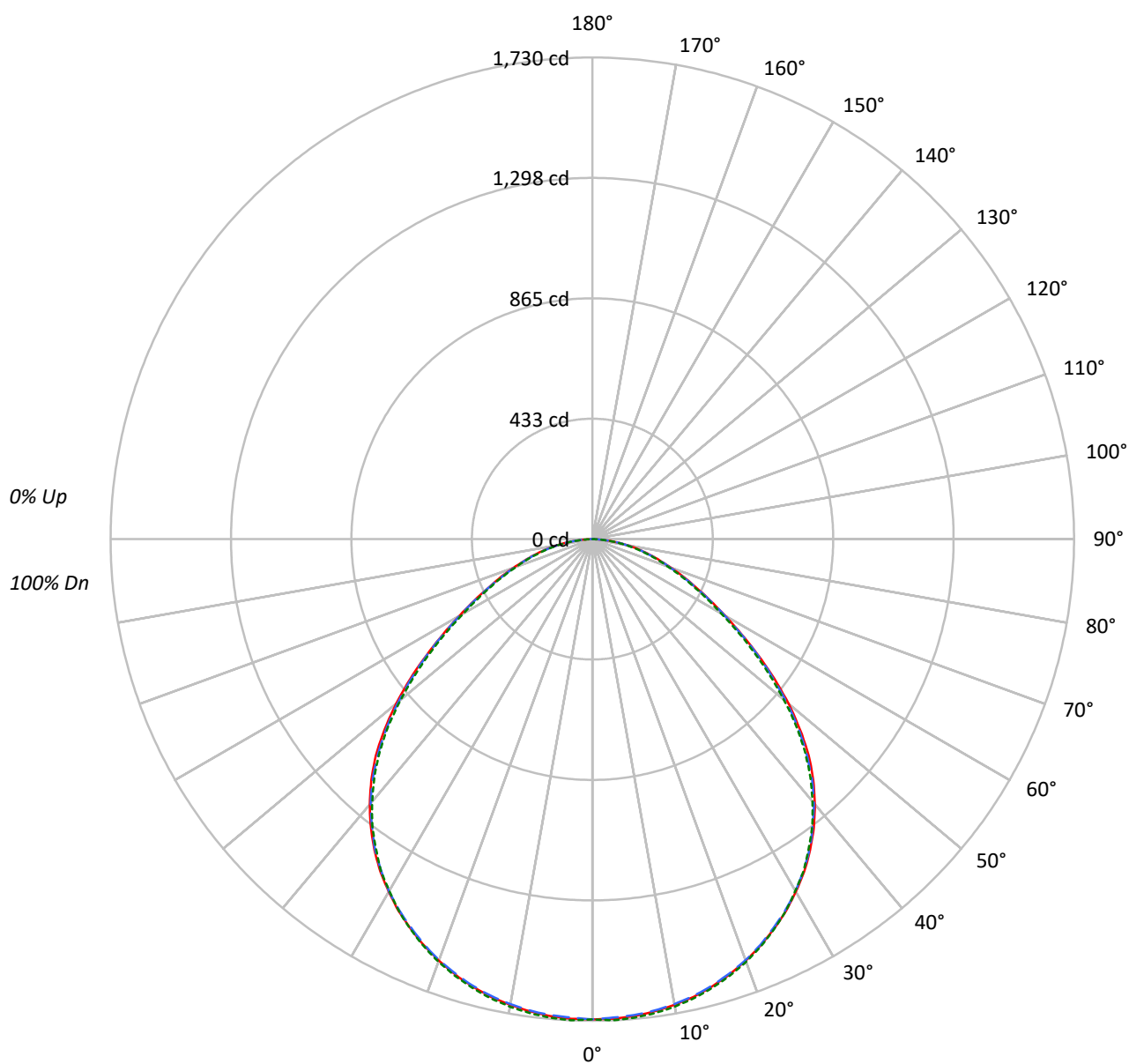
Lumens per Lamp: N/A
Luminaire Lumens: 4362.1 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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°	2321	2321	2321
5°	2323	2318	2331
10°	2321	2317	2330
15°	2317	2313	2324
20°	2307	2304	2313
25°	2292	2286	2295
30°	2271	2269	2266
35°	2240	2235	2226
40°	2184	2175	2160
45°	2093	2069	2054
50°	1925	1904	1880
55°	1704	1697	1663
60°	1481	1475	1436
65°	1305	1297	1272
70°	1184	1167	1144
75°	1096	1071	1051
80°	1001	987	954
85°	790	784	752

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2093 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.6	3.8
10°-20°	469.6	10.8
20°-30°	711.4	16.3
30°-40°	849.3	19.5
40°-50°	835.2	19.1
50°-60°	645.5	14.8
60°-70°	407.1	9.3
70°-80°	220.2	5.0
80°-90°	60.1	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°	1344.7	30.8
0°-40°	2193.9	50.3
0°-60°	3674.7	84.2
0°-90°	4362.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4362.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1725	1725	1725	1725	1725	
5°	1720	1721	1716	1724	1726	163
15°	1663	1664	1661	1666	1668	469
25°	1544	1545	1540	1545	1546	711
35°	1364	1364	1361	1359	1355	852
45°	1100	1096	1087	1079	1080	842
55°	726	732	723	712	709	652
65°	410	411	408	400	399	412
75°	211	208	206	207	202	224
85°	51	52	51	51	49	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1724.8	1724.8	1724.8	1724.8	1724.8
2.5°	1724.2	1724.8	1719.9	1728.0	1729.8
5°	1719.9	1720.6	1716.1	1723.5	1725.5
7.5°	1711.1	1712.5	1708.2	1715.6	1717.4
10°	1698.8	1700.1	1695.9	1703.3	1705.1
12.5°	1683.5	1684.0	1680.4	1687.1	1688.9
15°	1663.1	1663.5	1660.6	1666.0	1668.5
17.5°	1639.5	1640.2	1635.9	1642.6	1643.7
20°	1611.2	1611.6	1609.2	1614.8	1615.4
22.5°	1579.5	1580.9	1577.0	1582.0	1582.7
25°	1543.8	1544.9	1540.0	1544.9	1545.6
27.5°	1506.1	1506.5	1502.2	1506.1	1505.4
30°	1462.0	1465.9	1460.2	1458.9	1458.4
32.5°	1416.4	1416.9	1411.5	1410.1	1412.6
35°	1363.9	1364.3	1360.7	1358.9	1355.1
37.5°	1306.4	1306.4	1299.4	1298.3	1297.6
40°	1243.3	1242.6	1238.3	1234.0	1229.6
42.5°	1174.5	1175.9	1167.1	1159.7	1158.6
45°	1099.7	1095.5	1087.4	1078.8	1079.5
47.5°	1011.5	1012.6	1001.6	994.6	992.8
50°	919.8	919.8	909.5	902.1	898.2
52.5°	824.1	824.8	814.9	805.0	803.0
55°	726.4	732.5	723.3	711.6	709.1
57.5°	635.0	639.9	631.2	618.8	618.1
60°	550.3	550.8	548.3	536.6	533.5
62.5°	478.0	474.8	473.5	467.4	463.6
65°	409.9	410.6	407.5	400.5	399.4
67.5°	354.9	354.2	348.6	344.3	341.9
70°	301.0	299.2	296.7	293.1	290.7
72.5°	252.9	252.9	250.9	249.8	245.5
75°	210.9	208.4	206.0	207.1	202.2
77.5°	170.7	168.2	166.2	163.7	162.6
80°	129.2	126.7	127.4	123.5	123.1
82.5°	89.6	89.6	88.5	85.4	86.0
85°	51.2	51.9	50.8	51.2	48.7
87.5°	18.6	19.1	20.4	19.1	19.1
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)