

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: P1050756

Luminaire Tested: 24PTR-50-PL1-L935-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050756
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737719)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-50-PL1-L935-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 90 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

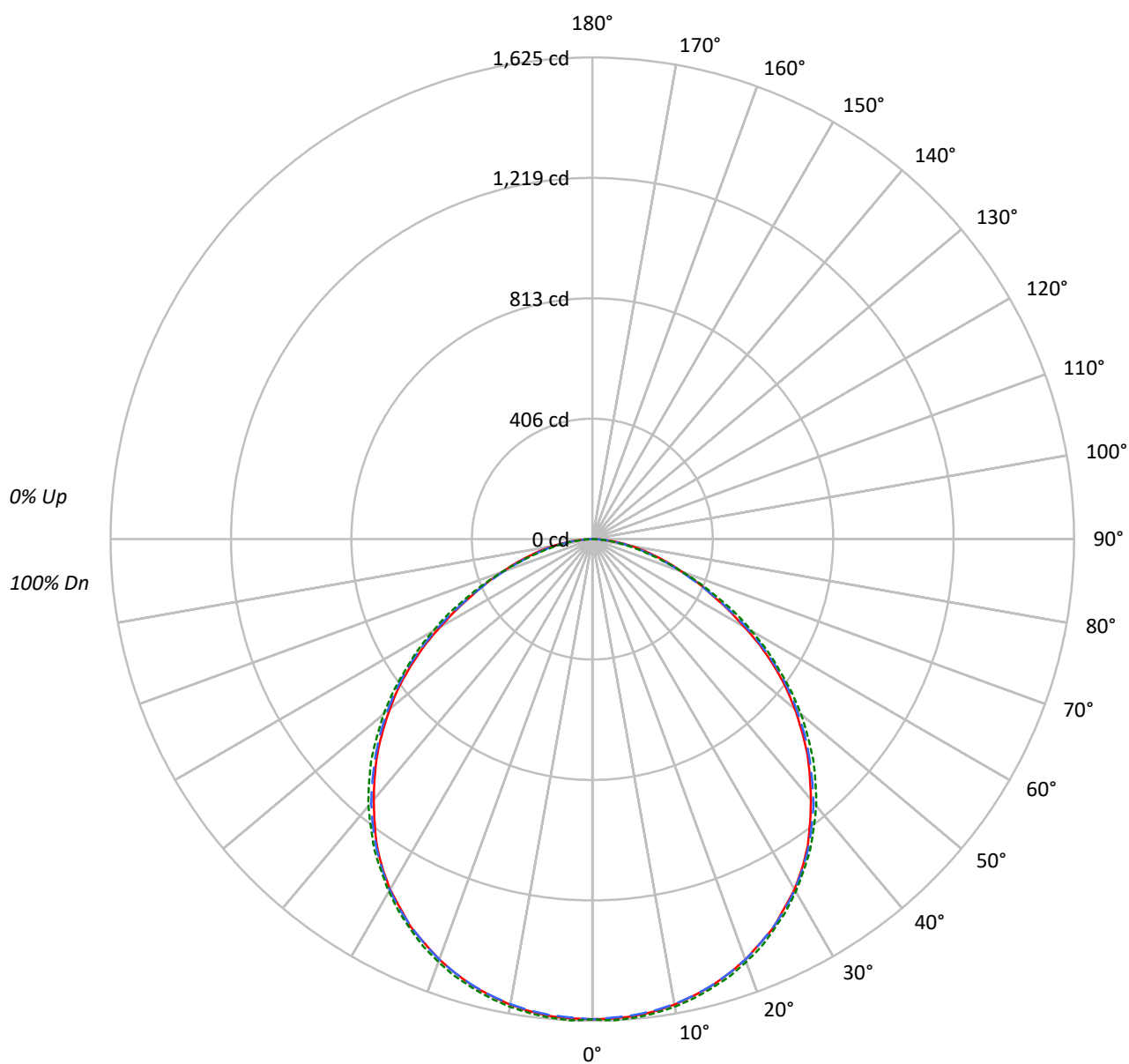
Lumens per Lamp: N/A
Luminaire Lumens: 4269.9 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72		
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61		
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	52		
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	46		
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40		
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35		
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32		
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29		
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2180	2180	2180
5°	2181	2177	2189
10°	2179	2176	2188
15°	2172	2171	2182
20°	2161	2161	2173
25°	2147	2144	2155
30°	2119	2122	2133
35°	2079	2087	2104
40°	2014	2038	2064
45°	1952	1968	2006
50°	1866	1886	1923
55°	1757	1785	1806
60°	1594	1628	1668
65°	1416	1431	1489
70°	1266	1240	1271
75°	1142	1076	1054
80°	1038	963	855
85°	878	798	687

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2006 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.7	3.6
10°-20°	440.7	10.3
20°-30°	666.6	15.6
30°-40°	794.6	18.6
40°-50°	799.0	18.7
50°-60°	678.1	15.9
60°-70°	451.5	10.6
70°-80°	225.4	5.3
80°-90°	60.3	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°	1261.0	29.5
0°-40°	2055.6	48.1
0°-60°	3532.7	82.7
0°-90°	4269.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4269.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1620	1620	1620	1620	1620	
5°	1615	1616	1612	1619	1621	154
15°	1559	1561	1559	1565	1566	440
25°	1446	1446	1444	1451	1452	665
35°	1266	1267	1270	1280	1281	790
45°	1026	1027	1034	1048	1054	789
55°	749	754	761	768	770	668
65°	445	448	450	456	468	446
75°	220	217	207	202	203	236
85°	57	56	52	49	44	66
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1619.9	1619.9	1619.9	1619.9	1619.9
2.5°	1618.6	1619.9	1615.5	1623.4	1625.3
5°	1615.1	1615.5	1612.0	1619.2	1621.0
7.5°	1607.2	1607.9	1604.2	1612.0	1613.1
10°	1594.6	1595.9	1592.8	1600.0	1601.8
12.5°	1578.4	1580.2	1577.1	1585.0	1586.3
15°	1559.3	1561.0	1558.6	1565.1	1566.5
17.5°	1535.7	1537.0	1535.7	1541.8	1545.3
20°	1509.3	1509.3	1509.3	1514.8	1517.8
22.5°	1476.4	1479.4	1478.1	1485.3	1488.4
25°	1445.9	1445.9	1443.9	1450.7	1451.7
27.5°	1403.1	1407.9	1407.5	1413.4	1414.7
30°	1364.1	1365.4	1366.0	1370.2	1372.6
32.5°	1316.8	1317.8	1319.8	1325.7	1326.4
35°	1265.7	1267.0	1270.5	1279.5	1280.8
37.5°	1206.4	1212.9	1216.0	1225.6	1226.7
40°	1146.9	1151.0	1160.2	1170.2	1175.0
42.5°	1086.2	1091.0	1096.5	1110.2	1114.6
45°	1025.6	1027.4	1034.1	1047.9	1054.0
47.5°	958.5	963.9	969.8	981.8	985.5
50°	891.3	897.2	900.9	911.6	918.8
52.5°	823.5	828.9	833.1	839.6	846.8
55°	749.1	754.3	761.1	768.3	770.0
57.5°	673.4	679.3	683.7	691.3	699.2
60°	592.3	599.1	604.9	612.1	620.0
62.5°	516.8	519.7	525.8	537.8	549.1
65°	444.7	448.4	449.5	456.2	467.6
67.5°	384.7	384.7	379.2	381.6	394.3
70°	321.7	319.3	315.1	312.7	323.0
72.5°	270.6	267.6	258.6	254.5	259.9
75°	219.6	216.6	207.0	202.2	202.8
77.5°	176.4	171.6	163.8	155.5	153.7
80°	133.9	131.9	124.3	116.5	110.3
82.5°	94.9	90.7	86.4	81.6	76.8
85°	56.9	55.8	51.7	48.6	44.5
87.5°	23.3	23.3	22.2	20.9	19.8
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)