

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: P1050602

Luminaire Tested: 24PTR-50-PB1-L935-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050602
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-L935-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 90 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

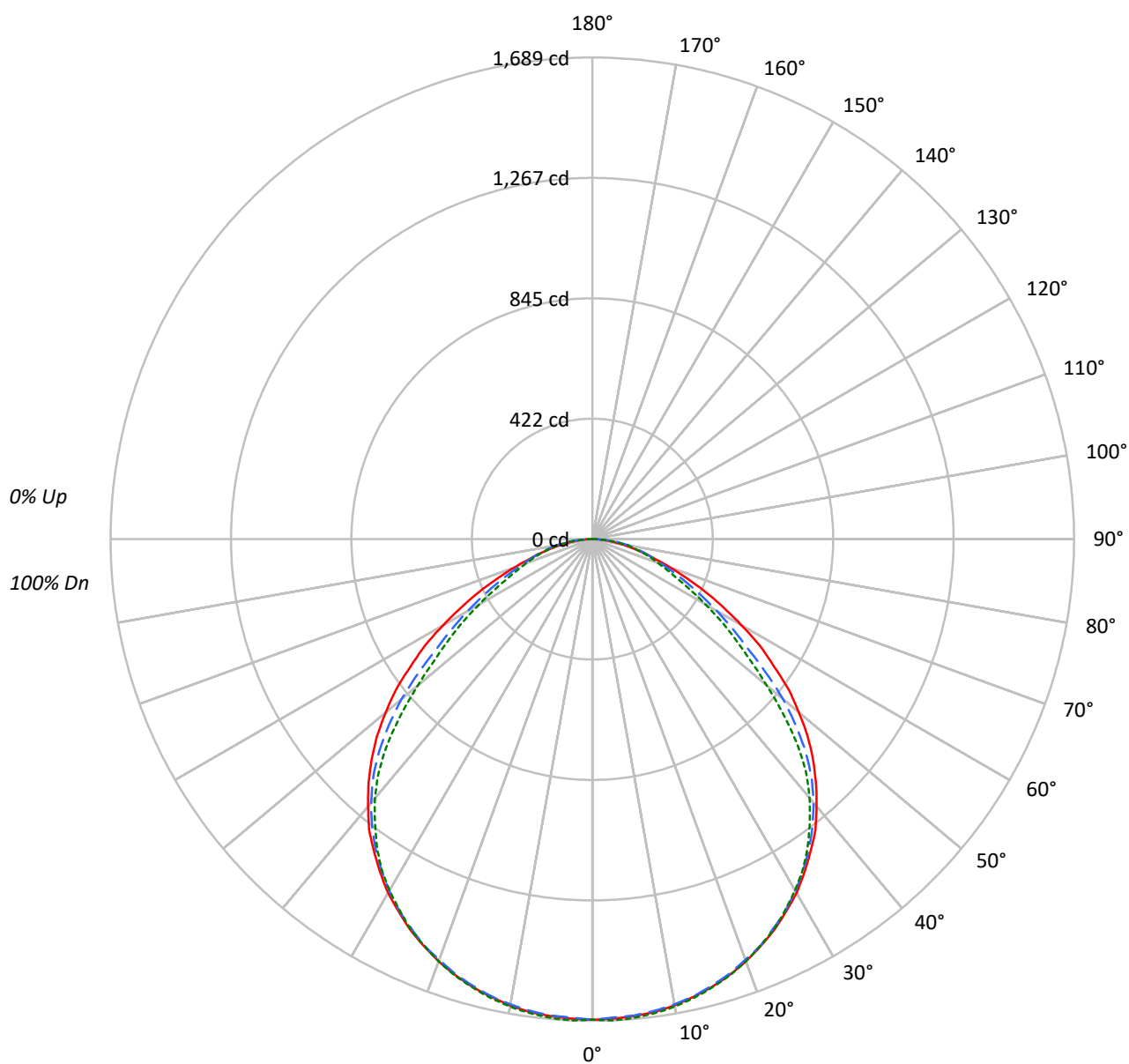
Lumens per Lamp: N/A
Luminaire Lumens: 4202.1 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2267	2267	2267
5°	2268	2265	2276
10°	2269	2263	2274
15°	2264	2258	2266
20°	2256	2247	2256
25°	2243	2234	2240
30°	2225	2212	2209
35°	2192	2176	2162
40°	2148	2119	2082
45°	2082	2015	1932
50°	1979	1827	1670
55°	1823	1551	1439
60°	1623	1356	1233
65°	1393	1175	1050
70°	1149	1036	962
75°	970	991	938
80°	820	1012	965
85°	642	1025	897

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2082 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.8	3.8
10°-20°	458.5	10.9
20°-30°	694.5	16.5
30°-40°	827.6	19.7
40°-50°	809.3	19.3
50°-60°	612.1	14.6
60°-70°	376.1	8.9
70°-80°	200.3	4.8
80°-90°	63.9	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°	1312.8	31.2
0°-40°	2140.3	50.9
0°-60°	3561.7	84.8
0°-90°	4202.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4202.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1685	1685	1685	1685	1685	
5°	1679	1681	1677	1683	1685	160
15°	1625	1627	1621	1627	1627	459
25°	1511	1509	1505	1507	1509	696
35°	1335	1333	1325	1318	1316	835
45°	1094	1088	1059	1024	1016	842
55°	777	738	661	624	613	696
65°	437	402	369	340	330	435
75°	186	189	191	184	180	200
85°	42	54	66	62	58	50
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1685.2	1685.2	1685.2	1685.2	1685.2
2.5°	1683.2	1685.2	1678.9	1687.3	1689.3
5°	1678.9	1681.0	1676.9	1683.2	1685.2
7.5°	1672.8	1672.8	1668.6	1674.7	1676.9
10°	1660.4	1660.4	1656.2	1662.3	1664.5
12.5°	1643.8	1643.8	1641.6	1645.8	1648.0
15°	1625.1	1627.1	1621.0	1627.1	1627.1
17.5°	1602.3	1600.3	1598.1	1602.3	1604.4
20°	1575.3	1575.3	1569.2	1573.3	1575.3
22.5°	1544.2	1544.2	1542.2	1544.2	1542.2
25°	1511.1	1508.9	1504.8	1506.9	1508.9
27.5°	1471.7	1471.7	1467.6	1467.6	1465.4
30°	1432.3	1430.1	1424.0	1419.9	1421.9
32.5°	1384.6	1382.5	1376.4	1372.2	1374.2
35°	1334.8	1332.9	1324.6	1318.3	1316.3
37.5°	1285.2	1278.9	1268.4	1260.2	1251.9
40°	1223.0	1216.7	1206.4	1187.7	1185.5
42.5°	1160.7	1154.6	1137.9	1115.2	1108.9
45°	1094.4	1088.3	1059.1	1023.9	1015.6
47.5°	1023.9	1013.6	967.9	924.4	907.9
50°	945.3	926.6	872.6	816.7	798.0
52.5°	868.5	835.4	764.9	715.1	696.6
55°	777.3	737.9	661.3	623.9	613.4
57.5°	696.6	642.6	580.4	543.2	534.9
60°	603.2	553.4	503.8	470.5	458.1
62.5°	518.1	474.6	433.3	404.1	389.7
65°	437.4	402.1	369.1	339.9	329.7
67.5°	358.6	339.9	312.9	290.3	284.0
70°	292.2	281.8	263.3	252.9	244.6
72.5°	232.2	236.3	223.9	219.8	213.5
75°	186.5	188.7	190.6	184.5	180.4
77.5°	141.0	151.2	159.5	155.4	151.2
80°	105.8	116.0	130.6	124.5	124.5
82.5°	72.5	85.1	97.5	93.4	91.2
85°	41.6	54.0	66.4	62.2	58.1
87.5°	16.5	27.0	28.9	28.9	27.0
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)