

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: P1050613

Luminaire Tested: 24PTR-50-PB1-L940-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050613
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-L940-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

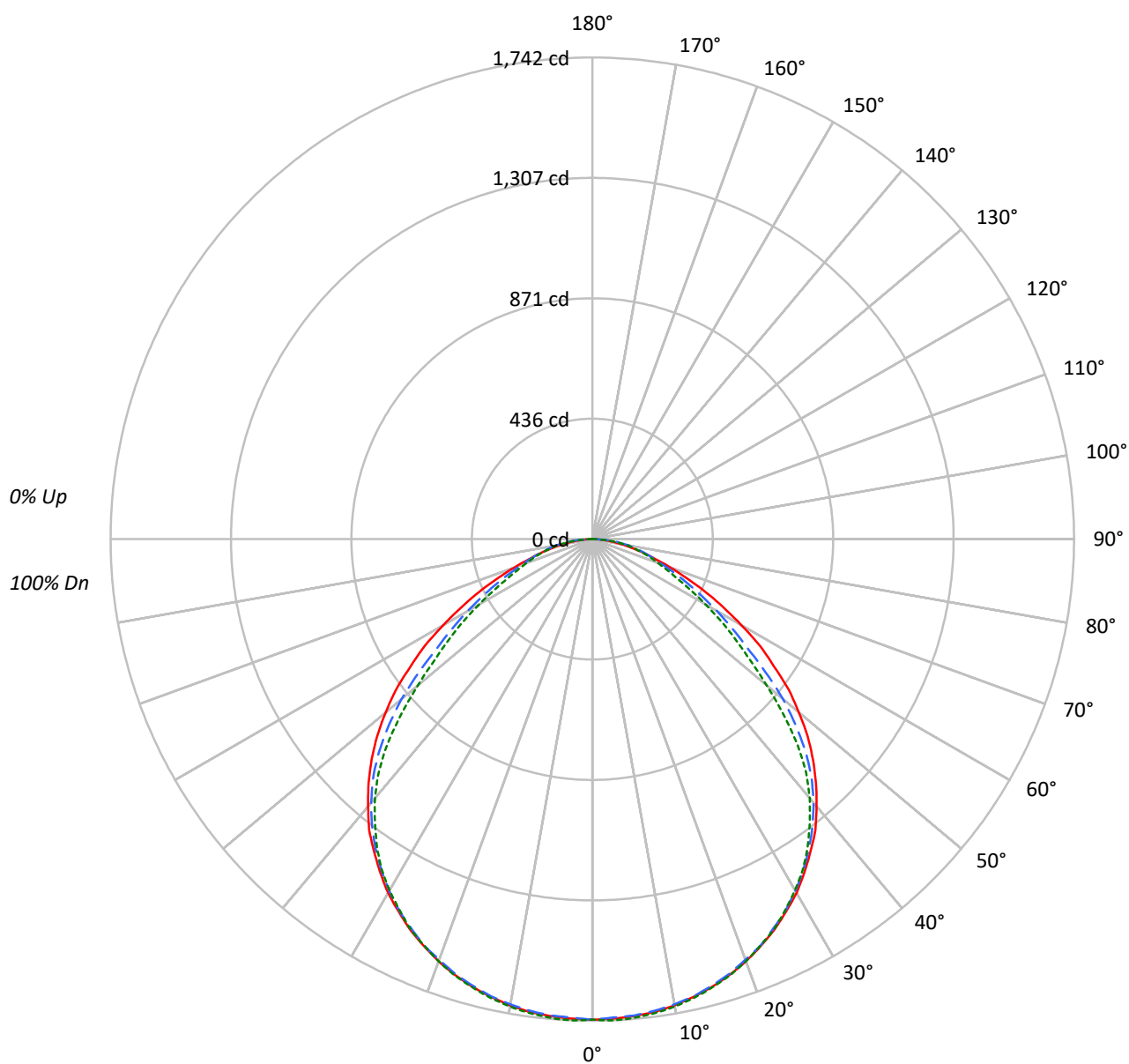
Lumens per Lamp: N/A
Luminaire Lumens: 4334.0 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2339	2339	2339
5°	2339	2336	2348
10°	2340	2334	2345
15°	2335	2329	2338
20°	2326	2317	2326
25°	2314	2304	2310
30°	2295	2282	2278
35°	2261	2244	2230
40°	2216	2186	2148
45°	2148	2079	1993
50°	2041	1884	1723
55°	1881	1600	1484
60°	1674	1398	1271
65°	1436	1212	1082
70°	1186	1068	993
75°	1000	1022	967
80°	845	1044	995
85°	662	1057	925

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2148 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.8	3.8
10°-20°	472.9	10.9
20°-30°	716.3	16.5
30°-40°	853.5	19.7
40°-50°	834.7	19.3
50°-60°	631.3	14.6
60°-70°	387.9	8.9
70°-80°	206.6	4.8
80°-90°	65.9	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°	1354.0	31.2
0°-40°	2207.5	50.9
0°-60°	3673.5	84.8
0°-90°	4334.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4334.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1738	1738	1738	1738	1738	
5°	1732	1734	1730	1736	1738	165
15°	1676	1678	1672	1678	1678	473
25°	1558	1556	1552	1554	1556	718
35°	1377	1375	1366	1360	1358	861
45°	1129	1122	1092	1056	1048	868
55°	802	761	682	644	633	718
65°	451	415	381	351	340	449
75°	192	195	197	190	186	206
85°	43	56	68	64	60	51
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1738.1	1738.1	1738.1	1738.1	1738.1
2.5°	1736.0	1738.1	1731.6	1740.3	1742.3
5°	1731.6	1733.8	1729.5	1736.0	1738.1
7.5°	1725.3	1725.3	1721.0	1727.3	1729.5
10°	1712.5	1712.5	1708.2	1714.5	1716.7
12.5°	1695.4	1695.4	1693.2	1697.4	1699.7
15°	1676.1	1678.1	1671.9	1678.1	1678.1
17.5°	1652.6	1650.5	1648.3	1652.6	1654.8
20°	1624.7	1624.7	1618.4	1622.7	1624.7
22.5°	1592.6	1592.6	1590.6	1592.6	1590.6
25°	1558.5	1556.3	1552.0	1554.3	1556.3
27.5°	1517.9	1517.9	1513.6	1513.6	1511.4
30°	1477.3	1475.0	1468.7	1464.5	1466.5
32.5°	1428.1	1425.9	1419.6	1415.3	1417.3
35°	1376.7	1374.7	1366.2	1359.7	1357.6
37.5°	1325.5	1319.0	1308.3	1299.7	1291.2
40°	1261.4	1254.8	1244.3	1225.0	1222.8
42.5°	1197.2	1190.9	1173.6	1150.3	1143.7
45°	1128.7	1122.4	1092.4	1056.0	1047.5
47.5°	1056.0	1045.4	998.3	953.4	936.4
50°	975.0	955.7	900.0	842.3	823.0
52.5°	895.7	861.6	788.9	737.5	718.4
55°	801.7	761.1	682.1	643.5	632.7
57.5°	718.4	662.8	598.6	560.2	551.7
60°	622.1	570.8	519.6	485.2	472.4
62.5°	534.4	489.5	446.9	416.8	402.0
65°	451.1	414.8	380.7	350.6	340.0
67.5°	369.9	350.6	322.7	299.4	292.9
70°	301.4	290.7	271.6	260.8	252.3
72.5°	239.5	243.7	230.9	226.7	220.2
75°	192.3	194.6	196.6	190.3	186.1
77.5°	145.4	156.0	164.5	160.3	156.0
80°	109.1	119.6	134.7	128.4	128.4
82.5°	74.7	87.8	100.5	96.3	94.0
85°	42.9	55.7	68.5	64.2	59.9
87.5°	17.1	27.8	29.9	29.9	27.8
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)