

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: P1050546

Luminaire Tested: 24PTR-45-PB1-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050546
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-45-PB1-L830-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

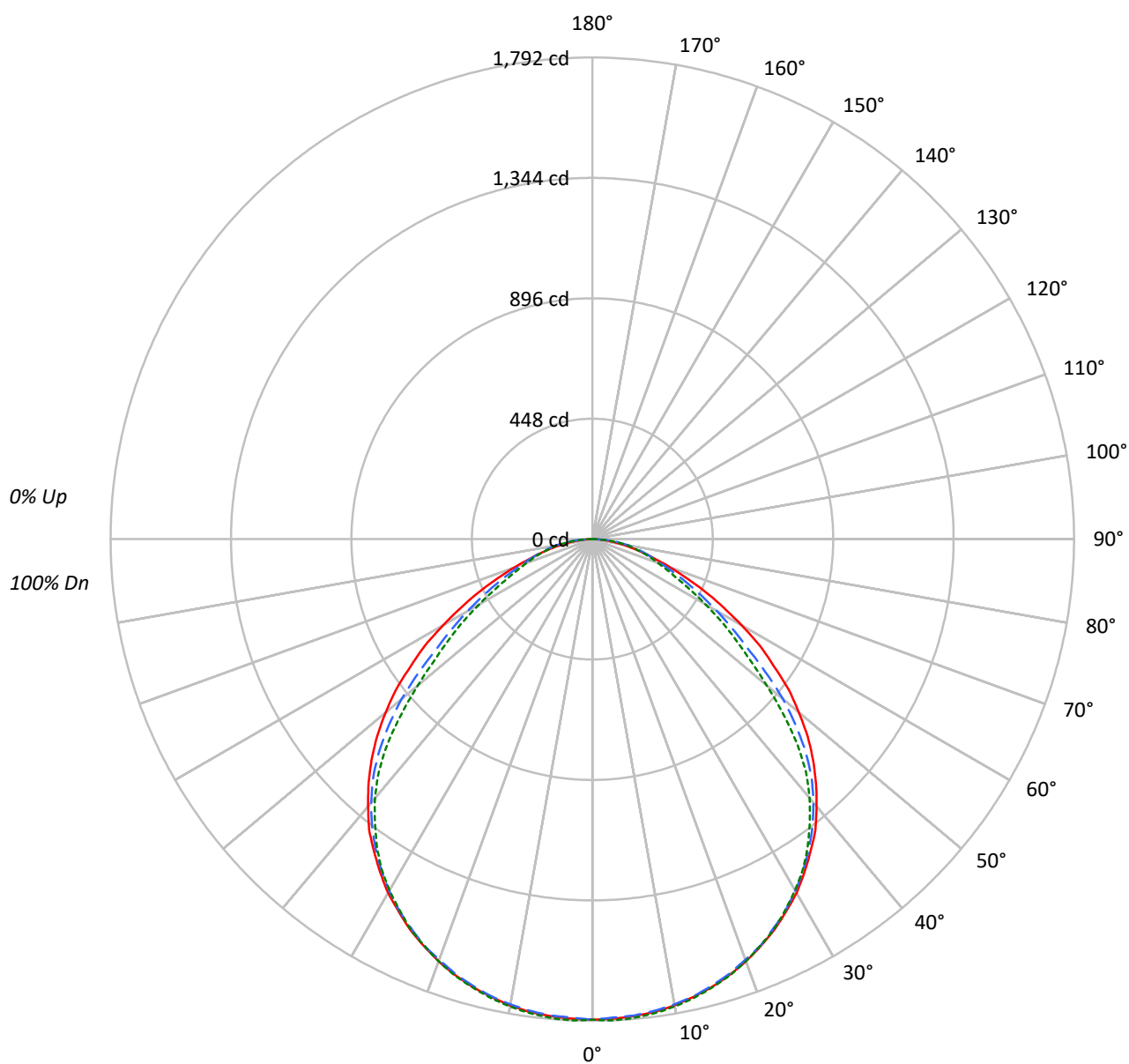
Lumens per Lamp: N/A
Luminaire Lumens: 4458.1 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37
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

TEST NUMBER: P1050546

CATALOG NUMBER: 24PTR-45-PB1-L830-UNV-STD-W

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	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	88	88	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	75	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64	64	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	56	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	49	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	44	44	42
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	39	39	37
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	35	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	32	32	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	29	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2406	2406	2406
5°	2406	2403	2415
10°	2407	2401	2413
15°	2402	2396	2405
20°	2393	2384	2393
25°	2380	2370	2377
30°	2361	2347	2344
35°	2326	2308	2294
40°	2279	2248	2209
45°	2209	2138	2050
50°	2099	1938	1772
55°	1935	1646	1527
60°	1722	1438	1308
65°	1477	1247	1114
70°	1220	1099	1021
75°	1029	1051	995
80°	869	1073	1024
85°	681	1087	951

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2209 cd/sqm

TEST NUMBER: P1050546

CATALOG NUMBER: 24PTR-45-PB1-L830-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.5	3.8
10°-20°	486.4	10.9
20°-30°	736.8	16.5
30°-40°	878.0	19.7
40°-50°	858.6	19.3
50°-60°	649.4	14.6
60°-70°	399.0	8.9
70°-80°	212.6	4.8
80°-90°	67.8	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°	1392.8	31.2
0°-40°	2270.8	50.9
0°-60°	3778.7	84.8
0°-90°	4458.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4458.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1788	1788	1788	1788	1788	
5°	1781	1784	1779	1786	1788	169
15°	1724	1726	1720	1726	1726	487
25°	1603	1601	1596	1599	1601	738
35°	1416	1414	1405	1399	1396	886
45°	1161	1155	1124	1086	1078	893
55°	825	783	702	662	651	739
65°	464	427	392	361	350	462
75°	198	200	202	196	191	212
85°	44	57	70	66	62	53
90°	0	0	0	0	0	

TEST NUMBER: P1050546

CATALOG NUMBER: 24PTR-45-PB1-L830-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1787.9	1787.9	1787.9	1787.9	1787.9
2.5°	1785.8	1787.9	1781.2	1790.2	1792.2
5°	1781.2	1783.5	1779.1	1785.8	1787.9
7.5°	1774.7	1774.7	1770.3	1776.8	1779.1
10°	1761.5	1761.5	1757.2	1763.6	1765.9
12.5°	1744.0	1744.0	1741.7	1746.1	1748.4
15°	1724.1	1726.2	1719.8	1726.2	1726.2
17.5°	1699.9	1697.8	1695.5	1699.9	1702.2
20°	1671.3	1671.3	1664.8	1669.2	1671.3
22.5°	1638.3	1638.3	1636.2	1638.3	1636.2
25°	1603.2	1600.9	1596.5	1598.8	1600.9
27.5°	1561.4	1561.4	1557.0	1557.0	1554.7
30°	1519.6	1517.3	1510.8	1506.4	1508.5
32.5°	1469.0	1466.7	1460.3	1455.9	1457.9
35°	1416.2	1414.1	1405.3	1398.6	1396.5
37.5°	1363.5	1356.8	1345.7	1337.0	1328.2
40°	1297.5	1290.8	1279.9	1260.1	1257.8
42.5°	1231.5	1225.0	1207.2	1183.2	1176.5
45°	1161.0	1154.6	1123.6	1086.2	1077.5
47.5°	1086.2	1075.4	1026.9	980.7	963.2
50°	1002.9	983.0	925.8	866.5	846.6
52.5°	921.4	886.3	811.5	758.6	739.0
55°	824.7	782.9	701.6	661.9	650.8
57.5°	739.0	681.8	615.7	576.3	567.5
60°	640.0	587.1	534.5	499.1	486.0
62.5°	549.7	503.5	459.7	428.7	413.5
65°	464.0	426.6	391.6	360.6	349.8
67.5°	380.5	360.6	332.0	308.0	301.3
70°	310.1	299.0	279.4	268.3	259.5
72.5°	246.3	250.7	237.6	233.2	226.5
75°	197.9	200.2	202.2	195.8	191.4
77.5°	149.6	160.5	169.2	164.8	160.5
80°	112.2	123.1	138.5	132.1	132.1
82.5°	76.9	90.3	103.4	99.0	96.7
85°	44.1	57.3	70.4	66.0	61.6
87.5°	17.5	28.6	30.7	30.7	28.6
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)