

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: P1050699

Luminaire Tested: 24PTR-40-PL1-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050699
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-40-PL1-L830-UNV-STD-W
Description: 4000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

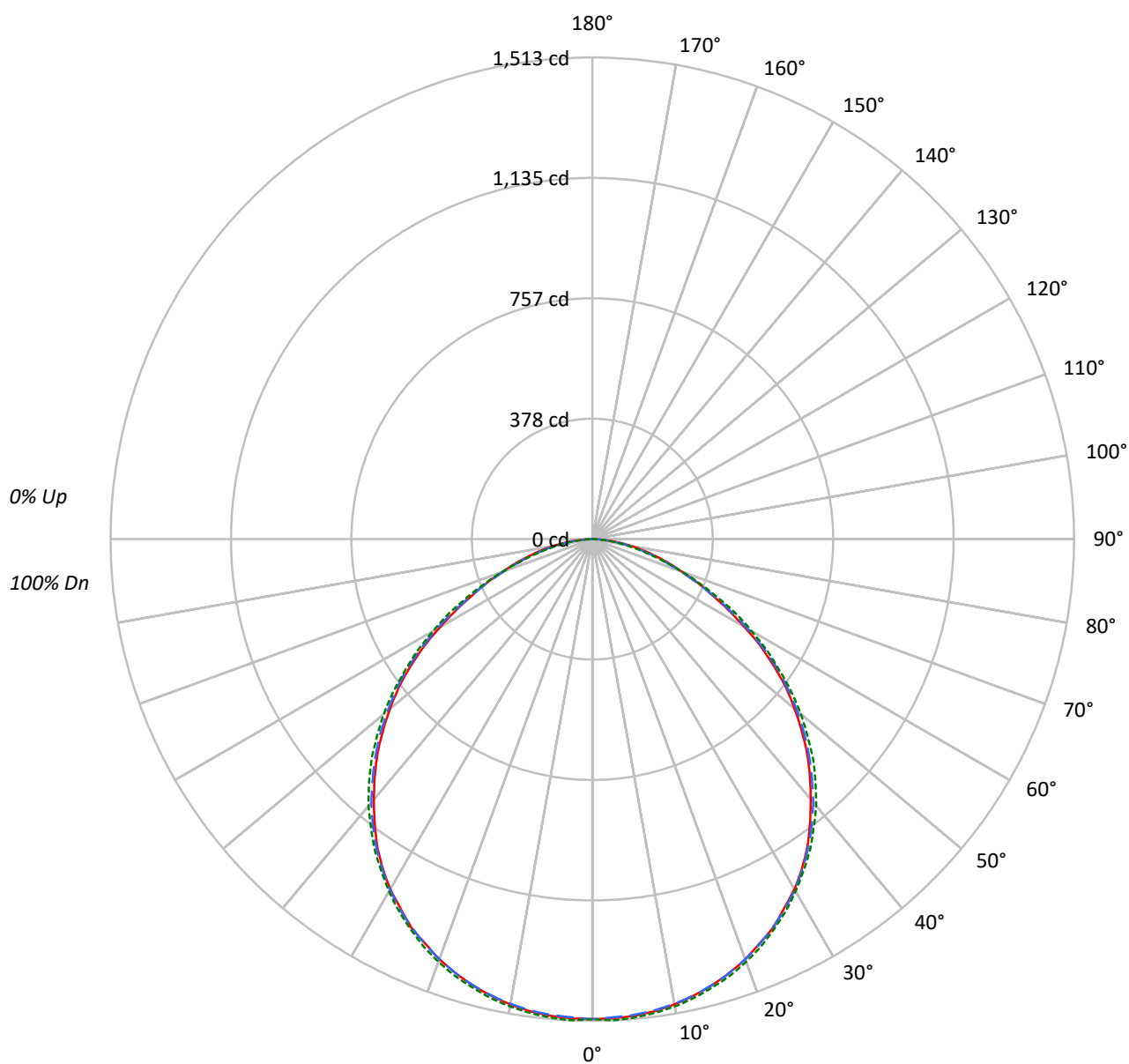
Lumens per Lamp: N/A
Luminaire Lumens: 3974.1 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33
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: P1050699

CATALOG NUMBER: 24PTR-40-PL1-L830-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1050699

CATALOG NUMBER: 24PTR-40-PL1-L830-UNV-STD-W

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2028	2028	2028
5°	2030	2026	2038
10°	2028	2025	2037
15°	2021	2021	2031
20°	2011	2011	2023
25°	1998	1995	2006
30°	1972	1975	1985
35°	1935	1942	1958
40°	1875	1897	1921
45°	1816	1831	1866
50°	1736	1755	1790
55°	1635	1662	1681
60°	1484	1515	1553
65°	1318	1332	1386
70°	1178	1154	1183
75°	1063	1001	981
80°	965	896	796
85°	818	743	639

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1866 cd/sqm

TEST NUMBER: P1050699

CATALOG NUMBER: 24PTR-40-PL1-L830-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.0	3.6
10°-20°	410.2	10.3
20°-30°	620.4	15.6
30°-40°	739.5	18.6
40°-50°	743.6	18.7
50°-60°	631.1	15.9
60°-70°	420.2	10.6
70°-80°	209.8	5.3
80°-90°	56.1	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°	1173.6	29.5
0°-40°	1913.1	48.1
0°-60°	3287.9	82.7
0°-90°	3974.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3974.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1508	1508	1508	1508	1508	
5°	1503	1504	1500	1507	1509	143
15°	1451	1453	1451	1457	1458	409
25°	1346	1346	1344	1350	1351	619
35°	1178	1179	1182	1191	1192	735
45°	955	956	962	975	981	734
55°	697	702	708	715	717	621
65°	414	417	418	425	435	415
75°	204	202	193	188	189	219
85°	53	52	48	45	41	61
90°	0	0	0	0	0	

TEST NUMBER: P1050699

CATALOG NUMBER: 24PTR-40-PL1-L830-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1507.6	1507.6	1507.6	1507.6	1507.6
2.5°	1506.4	1507.6	1503.6	1510.9	1512.7
5°	1503.2	1503.6	1500.3	1507.0	1508.7
7.5°	1495.9	1496.5	1493.0	1500.3	1501.4
10°	1484.1	1485.3	1482.5	1489.2	1490.8
12.5°	1469.1	1470.7	1467.9	1475.2	1476.4
15°	1451.2	1452.8	1450.6	1456.7	1457.9
17.5°	1429.3	1430.5	1429.3	1435.0	1438.2
20°	1404.7	1404.7	1404.7	1409.8	1412.7
22.5°	1374.1	1376.9	1375.7	1382.4	1385.3
25°	1345.7	1345.7	1343.9	1350.1	1351.2
27.5°	1305.9	1310.4	1310.0	1315.4	1316.7
30°	1269.6	1270.8	1271.4	1275.2	1277.5
32.5°	1225.5	1226.5	1228.4	1233.8	1234.5
35°	1178.0	1179.2	1182.5	1190.8	1192.0
37.5°	1122.8	1128.9	1131.8	1140.7	1141.7
40°	1067.4	1071.3	1079.8	1089.1	1093.6
42.5°	1011.0	1015.4	1020.5	1033.3	1037.4
45°	954.6	956.2	962.5	975.3	980.9
47.5°	892.0	897.1	902.6	913.8	917.2
50°	829.5	835.0	838.5	848.4	855.1
52.5°	766.4	771.5	775.3	781.4	788.1
55°	697.2	702.1	708.4	715.1	716.7
57.5°	626.8	632.2	636.3	643.4	650.7
60°	551.3	557.6	563.0	569.7	577.0
62.5°	481.0	483.7	489.4	500.5	511.1
65°	413.9	417.3	418.3	424.6	435.2
67.5°	358.0	358.0	353.0	355.2	367.0
70°	299.4	297.1	293.3	291.1	300.6
72.5°	251.9	249.0	240.7	236.9	241.9
75°	204.4	201.5	192.6	188.2	188.8
77.5°	164.2	159.7	152.4	144.7	143.1
80°	124.6	122.8	115.7	108.4	102.7
82.5°	88.3	84.4	80.4	75.9	71.4
85°	53.0	52.0	48.1	45.3	41.4
87.5°	21.7	21.7	20.7	19.5	18.5
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)