

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: P1050545

Luminaire Tested: 24PTR-40-PB1-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050545
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-40-PB1-L830-UNV-STD-W
Description: 4000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

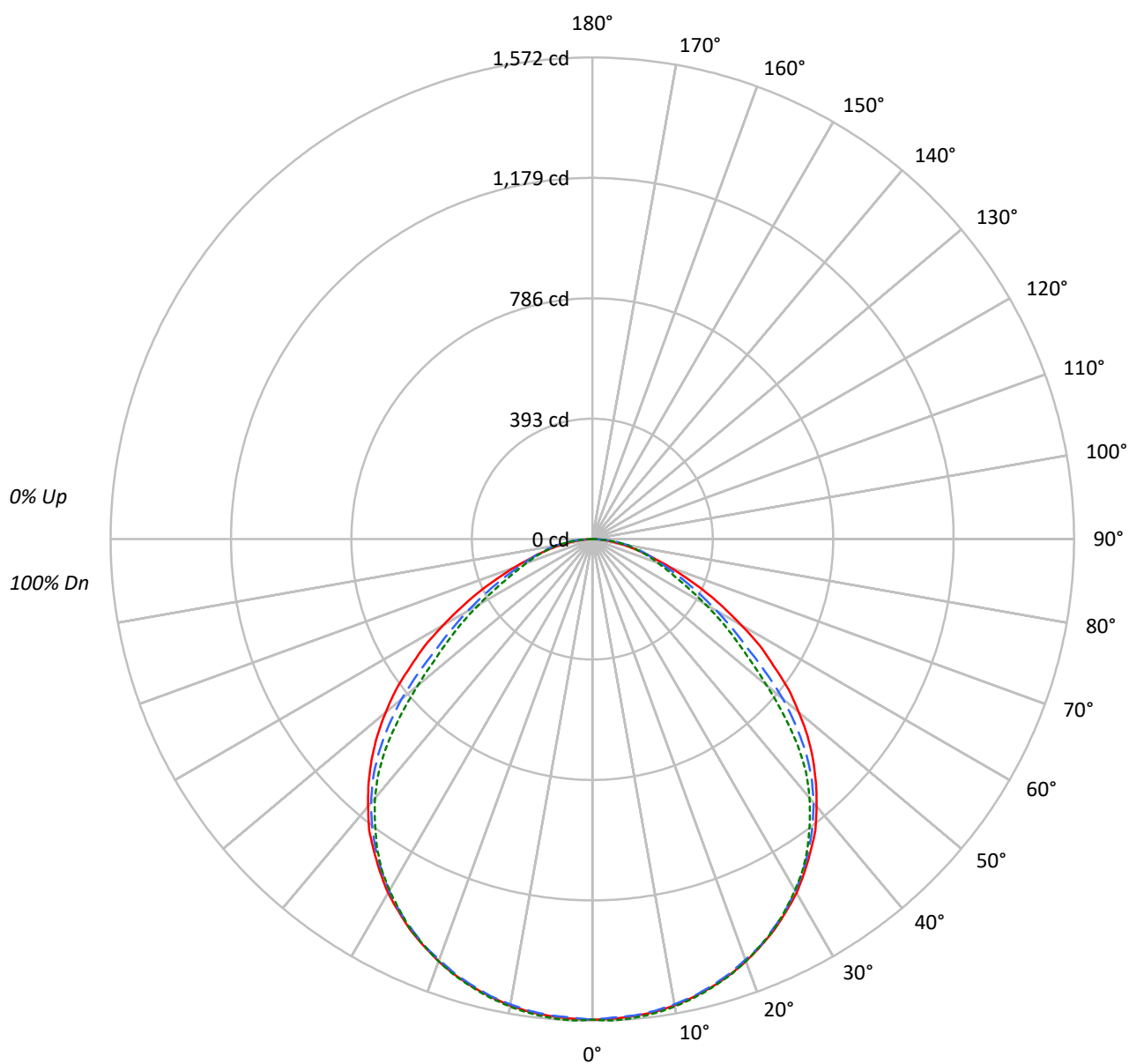
Lumens per Lamp: N/A
Luminaire Lumens: 3911.1 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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	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°	2110	2110	2110
5°	2110	2108	2118
10°	2111	2106	2117
15°	2107	2102	2109
20°	2099	2091	2099
25°	2088	2079	2085
30°	2071	2059	2056
35°	2041	2025	2012
40°	1999	1972	1938
45°	1938	1876	1799
50°	1842	1700	1555
55°	1697	1444	1339
60°	1511	1262	1147
65°	1296	1094	977
70°	1070	964	896
75°	902	922	873
80°	762	941	898
85°	597	954	835

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1938 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.7	3.8
10°-20°	426.7	10.9
20°-30°	646.4	16.5
30°-40°	770.2	19.7
40°-50°	753.2	19.3
50°-60°	569.7	14.6
60°-70°	350.0	8.9
70°-80°	186.5	4.8
80°-90°	59.5	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°	1221.9	31.2
0°-40°	1992.1	50.9
0°-60°	3315.0	84.8
0°-90°	3911.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3911.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1568	1568	1568	1568	1568	
5°	1563	1565	1561	1567	1568	149
15°	1513	1514	1509	1514	1514	427
25°	1406	1404	1401	1403	1404	648
35°	1242	1241	1233	1227	1225	777
45°	1019	1013	986	953	945	784
55°	724	687	616	581	571	648
65°	407	374	344	316	307	405
75°	174	176	177	172	168	186
85°	39	50	62	58	54	46
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1568.5	1568.5	1568.5	1568.5	1568.5
2.5°	1566.6	1568.5	1562.6	1570.5	1572.3
5°	1562.6	1564.6	1560.8	1566.6	1568.5
7.5°	1556.9	1556.9	1553.1	1558.7	1560.8
10°	1545.4	1545.4	1541.5	1547.2	1549.2
12.5°	1530.0	1530.0	1528.0	1531.8	1533.8
15°	1512.6	1514.4	1508.7	1514.4	1514.4
17.5°	1491.3	1489.5	1487.4	1491.3	1493.3
20°	1466.2	1466.2	1460.5	1464.4	1466.2
22.5°	1437.2	1437.2	1435.4	1437.2	1435.4
25°	1406.4	1404.4	1400.6	1402.6	1404.4
27.5°	1369.8	1369.8	1365.9	1365.9	1363.9
30°	1333.1	1331.1	1325.4	1321.6	1323.4
32.5°	1288.8	1286.7	1281.1	1277.2	1279.0
35°	1242.4	1240.6	1232.9	1227.0	1225.2
37.5°	1196.2	1190.3	1180.6	1172.9	1165.2
40°	1138.3	1132.4	1122.9	1105.5	1103.4
42.5°	1080.3	1074.7	1059.1	1038.0	1032.1
45°	1018.6	1012.9	985.8	952.9	945.3
47.5°	952.9	943.4	900.9	860.4	845.0
50°	879.8	862.4	812.2	760.1	742.7
52.5°	808.3	777.5	711.9	665.5	648.3
55°	723.5	686.8	615.5	580.7	571.0
57.5°	648.3	598.1	540.2	505.5	497.8
60°	561.4	515.1	468.9	437.9	426.3
62.5°	482.2	441.7	403.3	376.1	362.7
65°	407.1	374.3	343.5	316.4	306.8
67.5°	333.8	316.4	291.3	270.2	264.3
70°	272.0	262.3	245.1	235.4	227.7
72.5°	216.1	220.0	208.4	204.6	198.7
75°	173.6	175.6	177.4	171.8	167.9
77.5°	131.2	140.8	148.5	144.6	140.8
80°	98.4	108.0	121.5	115.9	115.9
82.5°	67.4	79.2	90.7	86.9	84.9
85°	38.7	50.2	61.8	57.9	54.1
87.5°	15.4	25.1	26.9	26.9	25.1
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)