

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: P1050755

Luminaire Tested: 24PTR-45-PL1-L935-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050755
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-45-PL1-L935-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 90 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

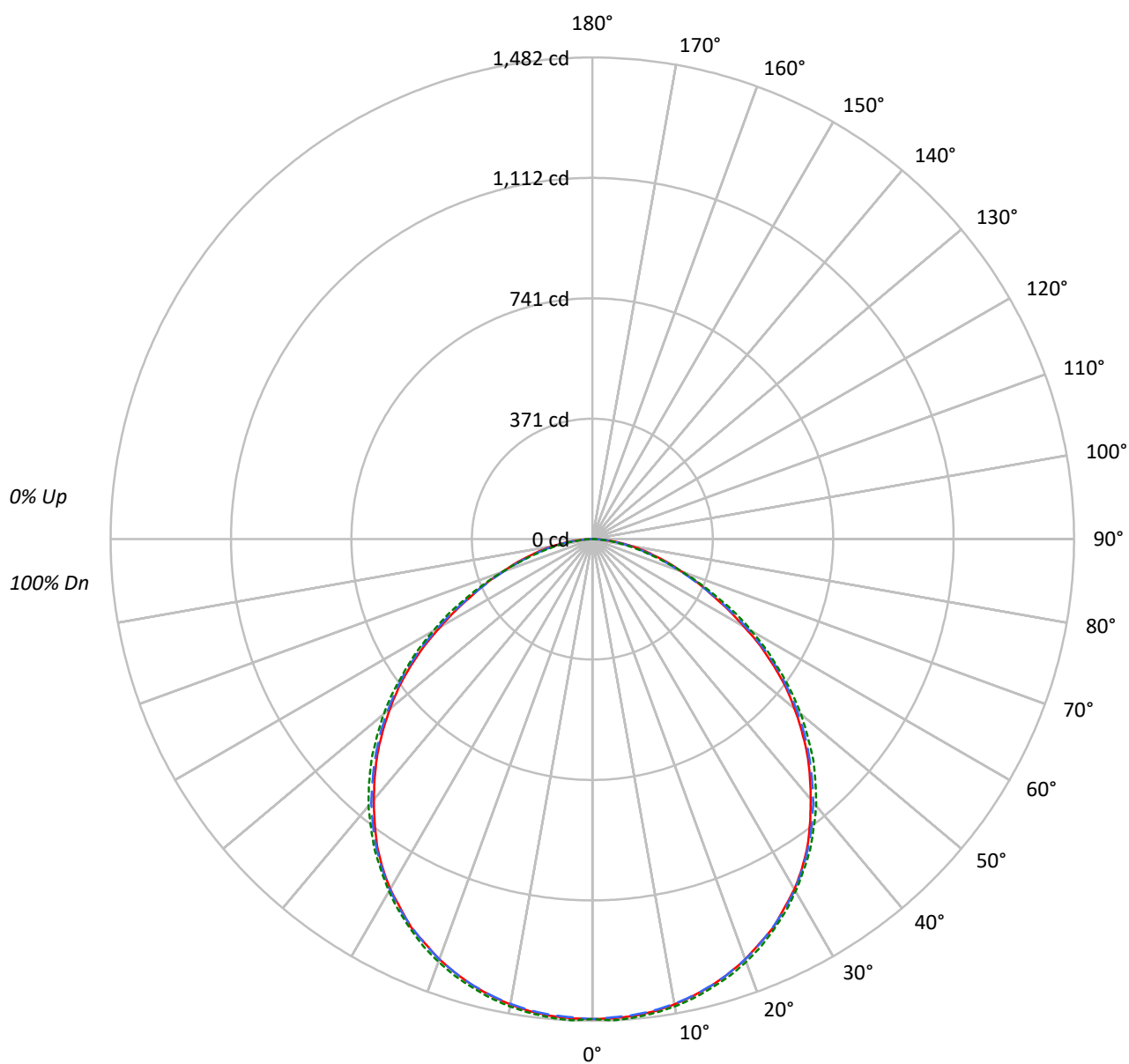
Lumens per Lamp: N/A
Luminaire Lumens: 3892.6 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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	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°	1987	1987	1987
5°	1989	1985	1996
10°	1986	1984	1995
15°	1980	1979	1989
20°	1970	1970	1981
25°	1957	1954	1965
30°	1932	1935	1944
35°	1895	1902	1918
40°	1836	1858	1881
45°	1779	1794	1828
50°	1701	1719	1753
55°	1602	1628	1647
60°	1453	1484	1521
65°	1291	1304	1357
70°	1153	1130	1158
75°	1041	981	961
80°	946	878	779
85°	801	727	627

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1828 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.1	3.6
10°-20°	401.8	10.3
20°-30°	607.7	15.6
30°-40°	724.4	18.6
40°-50°	728.4	18.7
50°-60°	618.2	15.9
60°-70°	411.6	10.6
70°-80°	205.5	5.3
80°-90°	55.0	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°	1149.5	29.5
0°-40°	1873.9	48.1
0°-60°	3220.5	82.7
0°-90°	3892.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3892.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1477	1477	1477	1477	1477	
5°	1472	1473	1470	1476	1478	140
15°	1422	1423	1421	1427	1428	401
25°	1318	1318	1316	1322	1324	606
35°	1154	1155	1158	1166	1168	720
45°	935	937	943	955	961	719
55°	683	688	694	700	702	609
65°	405	409	410	416	426	406
75°	200	197	189	184	185	215
85°	52	51	47	44	41	60
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1476.7	1476.7	1476.7	1476.7	1476.7
2.5°	1475.5	1476.7	1472.8	1479.9	1481.7
5°	1472.4	1472.8	1469.6	1476.1	1477.7
7.5°	1465.2	1465.8	1462.4	1469.6	1470.6
10°	1453.7	1454.9	1452.1	1458.6	1460.2
12.5°	1439.0	1440.6	1437.8	1444.9	1446.1
15°	1421.5	1423.1	1420.9	1426.8	1428.0
17.5°	1400.0	1401.2	1400.0	1405.6	1408.7
20°	1375.9	1375.9	1375.9	1380.9	1383.7
22.5°	1345.9	1348.7	1347.5	1354.1	1356.9
25°	1318.1	1318.1	1316.3	1322.5	1323.5
27.5°	1279.1	1283.5	1283.1	1288.5	1289.7
30°	1243.5	1244.7	1245.3	1249.1	1251.3
32.5°	1200.4	1201.4	1203.2	1208.5	1209.1
35°	1153.9	1155.1	1158.2	1166.4	1167.6
37.5°	1099.8	1105.8	1108.5	1117.3	1118.3
40°	1045.5	1049.3	1057.7	1066.8	1071.2
42.5°	990.3	994.6	999.6	1012.1	1016.1
45°	935.0	936.6	942.7	955.3	960.8
47.5°	873.8	878.7	884.1	895.0	898.4
50°	812.5	817.9	821.3	831.0	837.6
52.5°	750.7	755.7	759.4	765.4	772.0
55°	682.9	687.7	693.8	700.4	702.0
57.5°	613.9	619.3	623.3	630.2	637.4
60°	540.0	546.1	551.5	558.1	565.2
62.5°	471.2	473.8	479.3	490.3	500.6
65°	405.4	408.7	409.7	415.9	426.2
67.5°	350.7	350.7	345.7	347.9	359.4
70°	293.2	291.1	287.3	285.1	294.4
72.5°	246.7	243.9	235.8	232.0	237.0
75°	200.2	197.4	188.7	184.3	184.9
77.5°	160.8	156.5	149.3	141.7	140.2
80°	122.1	120.3	113.3	106.2	100.6
82.5°	86.5	82.7	78.7	74.4	70.0
85°	51.9	50.9	47.1	44.3	40.6
87.5°	21.3	21.3	20.3	19.1	18.1
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)