

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: P1051063

Luminaire Tested: 24PTR-45-PW1-L935-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1051063
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737743)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-45-PW1-L935-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 90 CRI LEDS AND WAVES LENS

Light Source:
Ballast/Driver: -

Summary

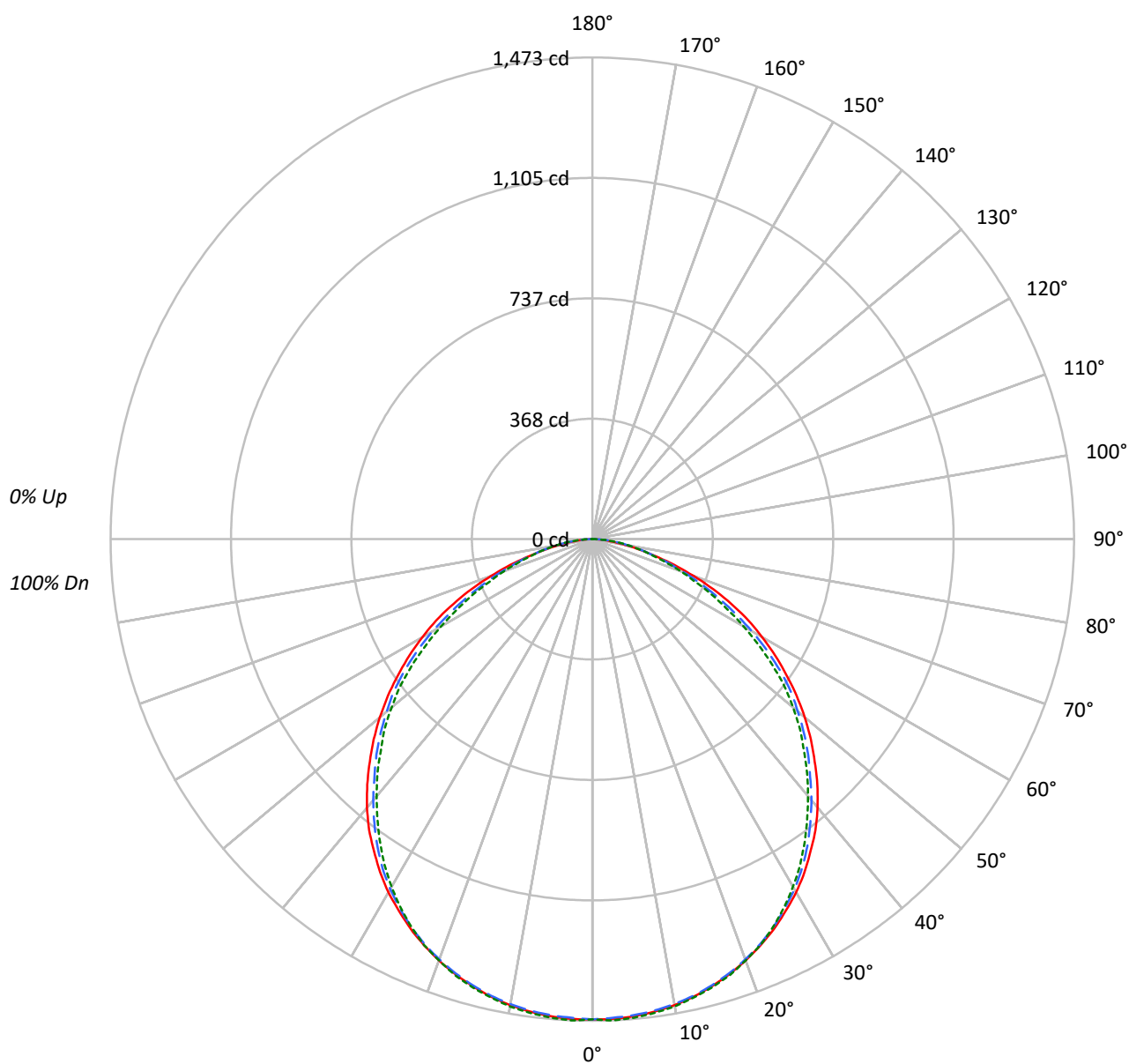
Lumens per Lamp: N/A
Luminaire Lumens: 3898.5 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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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	95	98	95	92	94	92	90	91	89	87	87	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	74	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	63	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	54	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	42	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	37	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	33	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	30	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	27	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1977	1977	1977
5°	1978	1974	1984
10°	1977	1973	1983
15°	1971	1968	1976
20°	1963	1959	1963
25°	1952	1944	1943
30°	1938	1921	1907
35°	1912	1883	1859
40°	1882	1831	1802
45°	1830	1776	1740
50°	1775	1717	1677
55°	1701	1643	1578
60°	1613	1517	1438
65°	1492	1355	1288
70°	1293	1180	1135
75°	1032	1010	982
80°	785	876	876
85°	580	749	749

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1830 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.3	3.6
10°-20°	399.6	10.2
20°-30°	603.9	15.5
30°-40°	717.1	18.4
40°-50°	722.4	18.5
50°-60°	624.5	16.0
60°-70°	426.8	10.9
70°-80°	210.5	5.4
80°-90°	54.4	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°	1142.8	29.3
0°-40°	1859.9	47.7
0°-60°	3206.8	82.3
0°-90°	3898.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3898.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1469	1469	1469	1469	1469	
5°	1465	1465	1462	1467	1469	139
15°	1415	1417	1413	1418	1418	399
25°	1315	1314	1310	1311	1309	606
35°	1164	1160	1146	1136	1132	728
45°	962	951	933	922	914	742
55°	725	723	701	680	673	648
65°	469	452	426	407	404	463
75°	199	197	194	194	189	216
85°	38	44	48	49	48	46
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1469.0	1469.0	1469.0	1469.0	1469.0
2.5°	1468.6	1469.0	1465.2	1471.8	1473.3
5°	1464.6	1465.2	1461.5	1467.4	1469.0
7.5°	1457.7	1458.7	1454.4	1460.3	1461.5
10°	1447.2	1447.8	1444.1	1450.0	1451.2
12.5°	1433.2	1433.6	1430.4	1435.8	1435.8
15°	1415.2	1416.8	1413.0	1418.0	1418.4
17.5°	1395.0	1395.6	1391.9	1397.2	1398.4
20°	1371.1	1371.1	1367.9	1372.3	1371.1
22.5°	1344.4	1344.4	1340.6	1342.8	1343.8
25°	1315.1	1313.9	1309.6	1310.8	1308.6
27.5°	1281.3	1281.3	1273.6	1273.6	1269.8
30°	1247.1	1244.3	1236.2	1231.2	1227.5
32.5°	1207.7	1204.0	1193.7	1185.0	1182.2
35°	1163.8	1159.8	1146.2	1135.9	1131.6
37.5°	1121.3	1112.6	1094.6	1084.3	1079.3
40°	1071.6	1060.8	1042.4	1028.1	1025.9
42.5°	1018.4	1009.7	985.8	975.3	972.7
45°	961.9	951.4	933.4	922.5	914.4
47.5°	906.3	898.6	878.0	864.9	862.2
50°	847.9	841.4	820.2	806.2	801.3
52.5°	787.6	783.3	765.3	747.3	741.3
55°	725.1	722.9	700.6	679.8	672.7
57.5°	663.6	660.8	632.9	609.0	602.5
60°	599.3	591.2	563.9	541.6	534.4
62.5°	538.4	521.0	491.5	474.1	466.0
65°	468.6	451.8	425.6	407.1	404.5
67.5°	400.1	380.0	359.8	348.3	339.6
70°	328.7	315.1	299.9	290.2	288.6
72.5°	262.3	252.6	244.9	238.9	234.0
75°	198.6	197.0	194.2	194.2	188.9
77.5°	146.0	149.7	151.9	151.3	152.5
80°	101.3	108.8	113.1	113.7	113.1
82.5°	64.3	73.0	80.1	81.1	82.3
85°	37.6	44.1	48.5	49.4	48.5
87.5°	16.8	21.2	22.4	23.3	22.4
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)