

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: P1051008

Luminaire Tested: 24PTR-45-PW1-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1051008
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-L830-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND WAVES LENS

Light Source:
Ballast/Driver: -

Summary

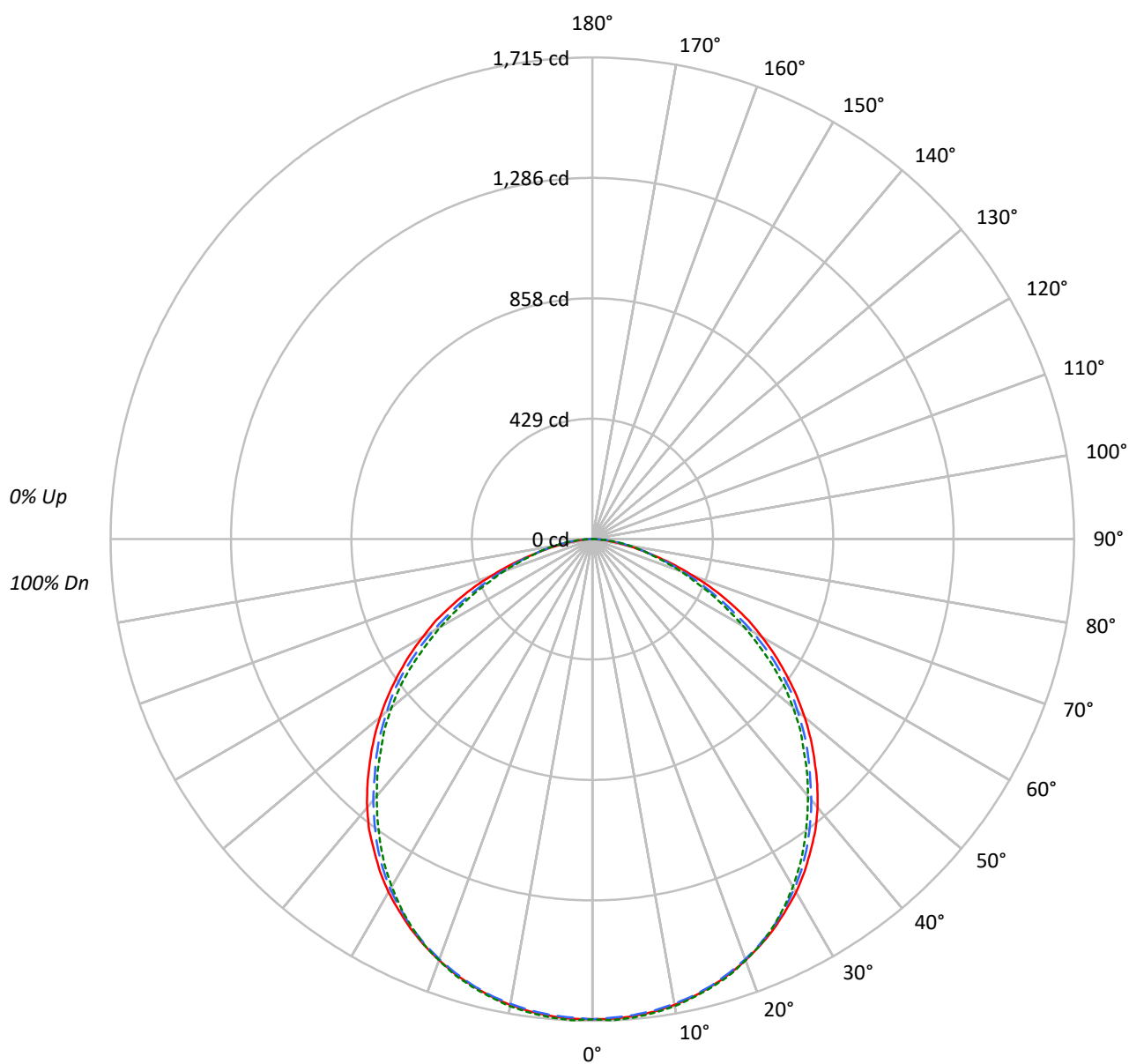
Lumens per Lamp: N/A
Luminaire Lumens: 4536.7 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2300	2300	2300
5°	2302	2297	2309
10°	2301	2296	2307
15°	2294	2291	2299
20°	2285	2279	2285
25°	2272	2263	2261
30°	2255	2235	2219
35°	2224	2191	2163
40°	2190	2131	2097
45°	2130	2067	2025
50°	2066	1998	1952
55°	1979	1913	1836
60°	1877	1766	1674
65°	1736	1577	1499
70°	1505	1373	1321
75°	1201	1175	1143
80°	913	1020	1020
85°	675	871	871

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2130 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.1	3.6
10°-20°	465.0	10.2
20°-30°	702.8	15.5
30°-40°	834.5	18.4
40°-50°	840.7	18.5
50°-60°	726.7	16.0
60°-70°	496.7	10.9
70°-80°	244.9	5.4
80°-90°	63.3	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°	1329.9	29.3
0°-40°	2164.4	47.7
0°-60°	3731.8	82.3
0°-90°	4536.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4536.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1710	1710	1710	1710	1710	
5°	1704	1705	1701	1708	1710	162
15°	1647	1649	1644	1650	1651	465
25°	1530	1529	1524	1525	1523	705
35°	1354	1350	1334	1322	1317	848
45°	1119	1107	1086	1074	1064	864
55°	844	841	815	791	783	754
65°	545	526	495	474	471	538
75°	231	229	226	226	220	252
85°	44	51	56	58	56	54
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1709.5	1709.5	1709.5	1709.5	1709.5
2.5°	1709.0	1709.5	1705.1	1712.7	1714.6
5°	1704.4	1705.1	1700.8	1707.7	1709.5
7.5°	1696.4	1697.5	1692.5	1699.4	1700.8
10°	1684.2	1684.9	1680.5	1687.4	1688.8
12.5°	1667.8	1668.3	1664.6	1670.8	1670.8
15°	1646.9	1648.7	1644.4	1650.1	1650.6
17.5°	1623.4	1624.1	1619.7	1625.9	1627.3
20°	1595.6	1595.6	1591.9	1596.9	1595.6
22.5°	1564.5	1564.5	1560.1	1562.7	1563.8
25°	1530.4	1529.0	1524.0	1525.4	1522.8
27.5°	1491.1	1491.1	1482.1	1482.1	1477.7
30°	1451.2	1448.0	1438.6	1432.8	1428.5
32.5°	1405.4	1401.1	1389.1	1379.0	1375.7
35°	1354.3	1349.7	1333.9	1321.9	1316.8
37.5°	1304.9	1294.7	1273.8	1261.8	1256.1
40°	1247.1	1234.4	1213.0	1196.4	1193.9
42.5°	1185.2	1175.0	1147.2	1135.0	1132.0
45°	1119.3	1107.1	1086.2	1073.5	1064.1
47.5°	1054.7	1045.7	1021.7	1006.6	1003.3
50°	986.8	979.2	954.5	938.2	932.4
52.5°	916.6	911.5	890.5	869.6	862.7
55°	843.8	841.3	815.3	791.1	782.8
57.5°	772.2	769.0	736.6	708.7	701.1
60°	697.4	688.0	656.2	630.2	621.9
62.5°	626.5	606.3	572.0	551.7	542.3
65°	545.3	525.7	495.3	473.7	470.7
67.5°	465.6	442.2	418.7	405.3	395.2
70°	382.5	366.7	348.9	337.7	335.8
72.5°	305.2	293.9	285.0	278.0	272.3
75°	231.1	229.3	226.0	226.0	219.8
77.5°	169.9	174.2	176.8	176.1	177.5
80°	117.8	126.6	131.7	132.3	131.7
82.5°	74.8	84.9	93.2	94.4	95.8
85°	43.7	51.3	56.4	57.5	56.4
87.5°	19.6	24.6	26.0	27.2	26.0
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)