

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: P1050656

Luminaire Tested: 24PTR-45-PC3-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050656
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737711)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-45-PC3-L850-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND PARAMID LENS

Light Source:
Ballast/Driver: -

Summary

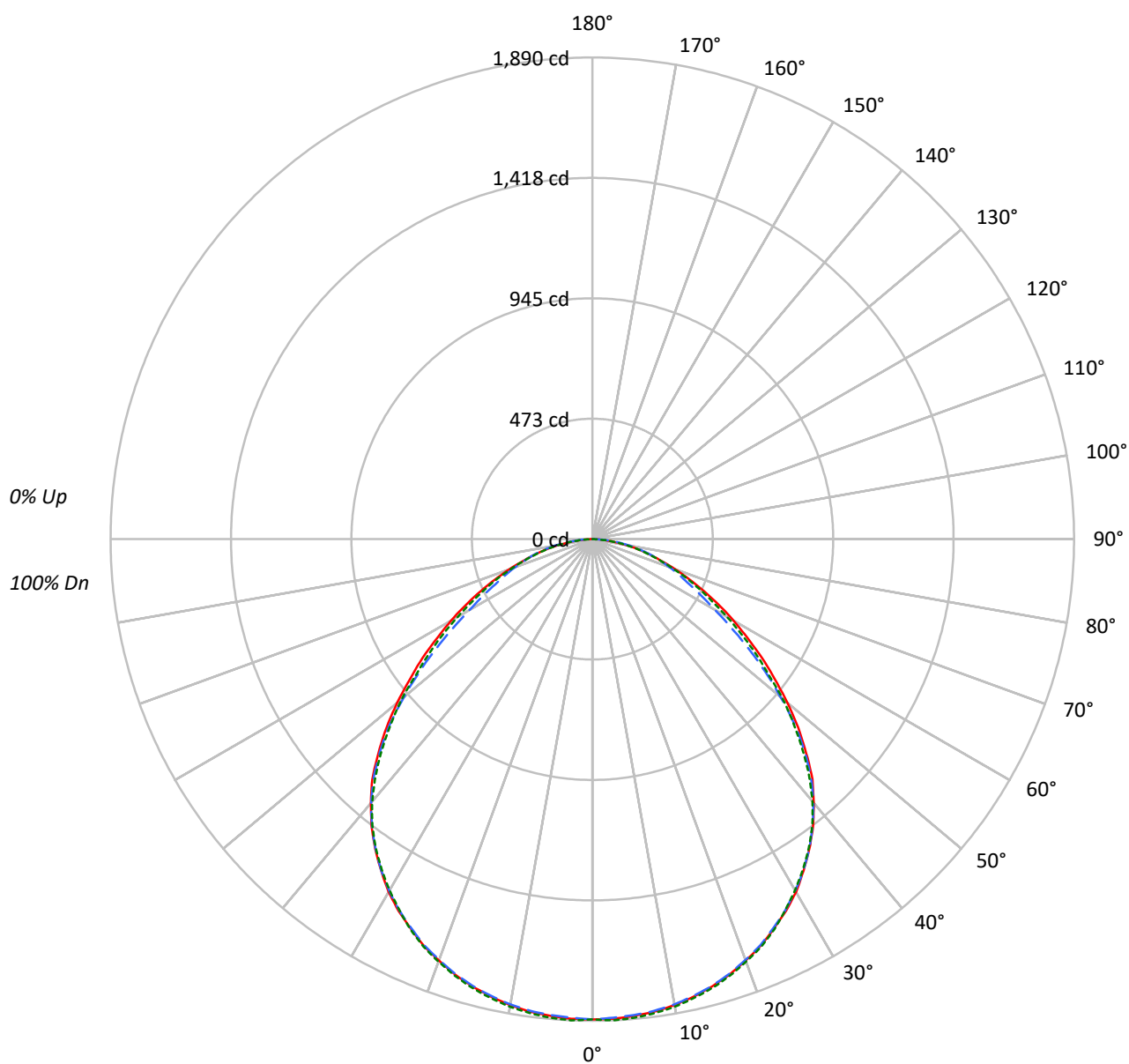
Lumens per Lamp: N/A
Luminaire Lumens: 4752.0 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	87	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	72
3	92	82	74	68	90	80	73	68	77	71	66	75	70	65	72	68	64	64	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	56	56	54
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	49	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	43	43	41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	39	39	37
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	35	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	31	31	30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	29	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2536	2536	2536
5°	2537	2532	2547
10°	2537	2532	2546
15°	2531	2528	2539
20°	2519	2515	2526
25°	2502	2498	2508
30°	2483	2475	2471
35°	2439	2436	2432
40°	2374	2371	2360
45°	2258	2241	2218
50°	2090	2020	2042
55°	1907	1753	1831
60°	1720	1495	1640
65°	1537	1337	1475
70°	1364	1265	1326
75°	1206	1226	1182
80°	1040	1171	1034
85°	780	926	780

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 2263 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.8	3.8
10°-20°	513.1	10.8
20°-30°	776.9	16.3
30°-40°	926.3	19.5
40°-50°	905.1	19.0
50°-60°	692.1	14.6
60°-70°	444.3	9.4
70°-80°	247.2	5.2
80°-90°	68.3	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°	1468.8	30.9
0°-40°	2395.1	50.4
0°-60°	3992.2	84.0
0°-90°	4752.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4752.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1885	1885	1885	1885	1885	
5°	1878	1880	1875	1884	1886	179
15°	1817	1818	1815	1821	1823	513
25°	1686	1688	1683	1688	1689	777
35°	1485	1486	1483	1482	1480	927
45°	1186	1189	1178	1175	1166	913
55°	813	785	747	756	781	727
65°	483	446	420	434	463	482
75°	232	234	236	233	227	248
85°	50	59	60	58	50	62
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1884.9	1884.9	1884.9	1884.9	1884.9
2.5°	1883.7	1884.4	1879.5	1887.6	1890.3
5°	1878.3	1879.5	1874.8	1883.7	1885.6
7.5°	1870.2	1871.4	1866.8	1875.6	1876.3
10°	1856.7	1857.4	1853.3	1862.1	1863.3
12.5°	1838.6	1840.5	1835.9	1844.0	1844.5
15°	1816.8	1818.3	1814.8	1821.0	1822.9
17.5°	1791.3	1792.0	1788.6	1795.2	1796.0
20°	1759.5	1759.5	1756.8	1764.4	1764.4
22.5°	1727.1	1725.2	1724.4	1727.1	1731.3
25°	1685.5	1687.5	1682.8	1688.2	1689.4
27.5°	1645.1	1645.1	1640.9	1643.6	1640.2
30°	1598.5	1595.8	1593.1	1593.6	1590.5
32.5°	1542.4	1542.4	1541.2	1541.2	1537.1
35°	1484.6	1485.9	1483.2	1482.4	1480.5
37.5°	1422.4	1424.6	1419.7	1418.5	1417.0
40°	1351.6	1351.6	1349.7	1347.0	1343.5
42.5°	1278.1	1278.1	1269.6	1262.7	1258.1
45°	1186.5	1189.2	1177.7	1175.0	1165.7
47.5°	1095.4	1093.5	1078.0	1076.1	1070.7
50°	998.4	986.9	964.9	970.7	975.6
52.5°	901.4	887.2	854.9	861.5	869.6
55°	813.0	784.8	747.1	756.4	780.7
57.5°	720.6	682.9	645.2	662.8	693.0
60°	639.1	596.7	555.5	574.4	609.4
62.5°	560.9	515.9	482.8	500.9	530.6
65°	482.8	445.6	420.1	434.0	463.2
67.5°	411.3	386.3	368.9	375.5	399.0
70°	346.6	330.9	321.6	323.6	337.0
72.5°	285.1	281.2	277.8	277.8	279.0
75°	232.0	233.9	235.9	232.7	227.3
77.5°	182.7	189.3	194.2	187.4	180.8
80°	134.2	145.0	151.1	143.5	133.5
82.5°	91.6	103.9	105.8	101.2	89.7
85°	50.5	59.3	60.0	58.1	50.5
87.5°	18.9	22.3	24.2	22.3	19.6
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)