

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: P1050579

Luminaire Tested: 24PTR-45-PB1-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050579
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-45-PB1-L850-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

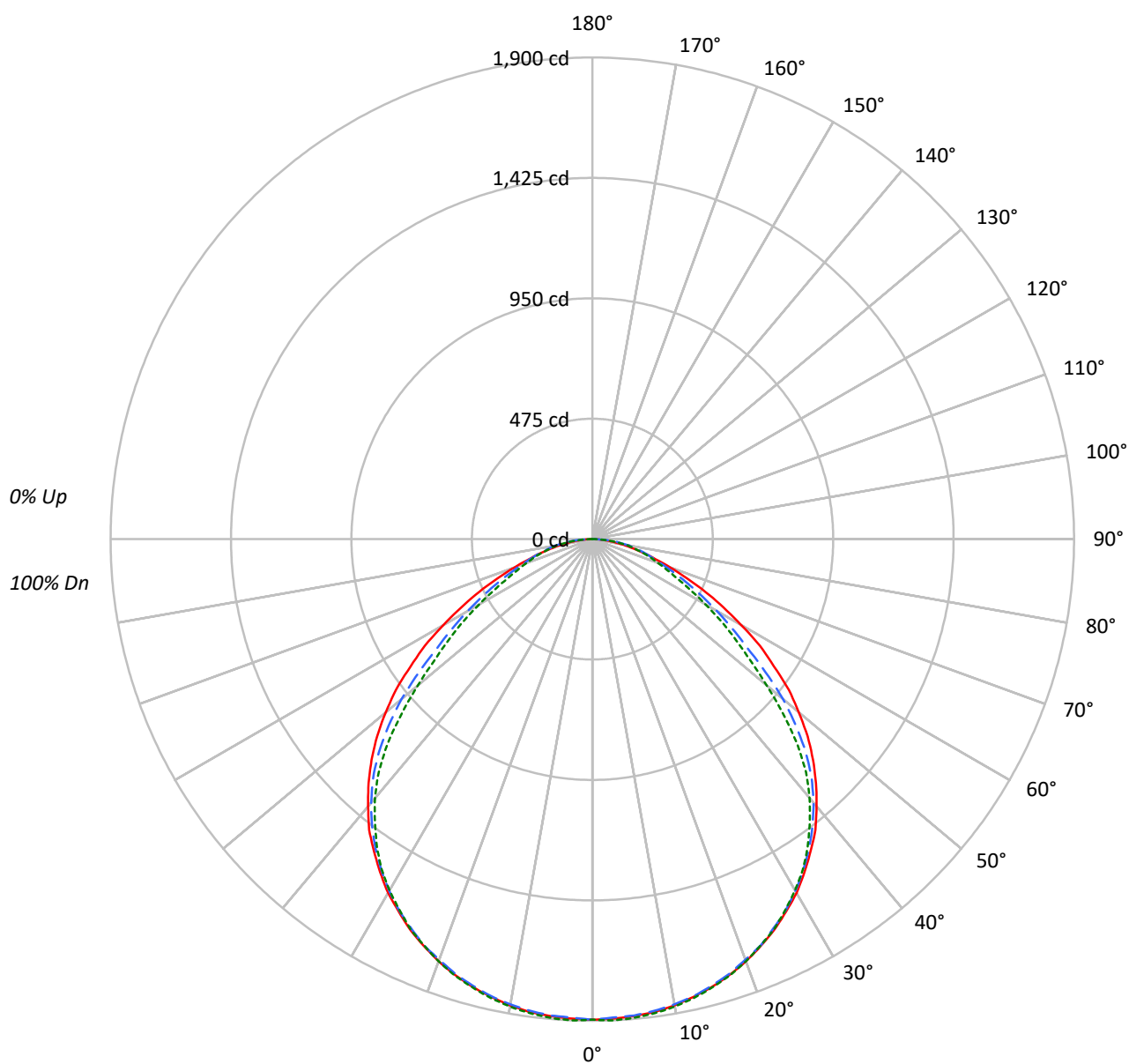
Lumens per Lamp: N/A
Luminaire Lumens: 4726.8 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1050579

CATALOG NUMBER: 24PTR-45-PB1-L850-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1050579

CATALOG NUMBER: 24PTR-45-PB1-L850-UNV-STD-W

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	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64	62		
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54		
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47		
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42		
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37		
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	33		
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30		
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2551	2551	2551
5°	2551	2548	2560
10°	2552	2545	2558
15°	2546	2540	2550
20°	2537	2527	2537
25°	2523	2513	2520
30°	2503	2489	2485
35°	2466	2447	2432
40°	2416	2384	2342
45°	2342	2267	2174
50°	2226	2055	1879
55°	2051	1745	1619
60°	1826	1525	1387
65°	1566	1322	1181
70°	1293	1165	1082
75°	1091	1115	1055
80°	922	1138	1085
85°	722	1153	1010

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2342 cd/sqm

TEST NUMBER: P1050579

CATALOG NUMBER: 24PTR-45-PB1-L850-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.7	3.8
10°-20°	515.7	10.9
20°-30°	781.2	16.5
30°-40°	930.9	19.7
40°-50°	910.3	19.3
50°-60°	688.6	14.6
60°-70°	423.0	8.9
70°-80°	225.4	4.8
80°-90°	71.9	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°	1476.7	31.2
0°-40°	2407.6	50.9
0°-60°	4006.5	84.8
0°-90°	4726.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4726.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1896	1896	1896	1896	1896	
5°	1888	1891	1886	1893	1896	180
15°	1828	1830	1823	1830	1830	516
25°	1700	1697	1693	1695	1697	783
35°	1502	1499	1490	1483	1481	939
45°	1231	1224	1191	1152	1142	947
55°	874	830	744	702	690	783
65°	492	452	415	382	371	490
75°	210	212	214	208	203	225
85°	47	61	75	70	65	56
90°	0	0	0	0	0	

TEST NUMBER: P1050579

CATALOG NUMBER: 24PTR-45-PB1-L850-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1895.6	1895.6	1895.6	1895.6	1895.6
2.5°	1893.4	1895.6	1888.5	1898.1	1900.3
5°	1888.5	1891.0	1886.3	1893.4	1895.6
7.5°	1881.7	1881.7	1877.0	1883.9	1886.3
10°	1867.7	1867.7	1863.1	1869.9	1872.4
12.5°	1849.1	1849.1	1846.7	1851.3	1853.8
15°	1828.1	1830.3	1823.4	1830.3	1830.3
17.5°	1802.4	1800.1	1797.7	1802.4	1804.8
20°	1772.0	1772.0	1765.1	1769.8	1772.0
22.5°	1737.0	1737.0	1734.8	1737.0	1734.8
25°	1699.8	1697.3	1692.7	1695.1	1697.3
27.5°	1655.5	1655.5	1650.8	1650.8	1648.4
30°	1611.2	1608.7	1601.9	1597.2	1599.4
32.5°	1557.6	1555.1	1548.3	1543.6	1545.8
35°	1501.5	1499.3	1490.0	1482.9	1480.7
37.5°	1445.7	1438.6	1426.9	1417.6	1408.2
40°	1375.7	1368.6	1357.1	1336.0	1333.6
42.5°	1305.7	1298.8	1280.0	1254.5	1247.4
45°	1231.0	1224.2	1191.4	1151.7	1142.4
47.5°	1151.7	1140.2	1088.8	1039.8	1021.2
50°	1063.3	1042.3	981.6	918.7	897.6
52.5°	976.9	939.7	860.4	804.4	783.6
55°	874.4	830.1	743.9	701.8	690.0
57.5°	783.6	722.9	652.8	611.0	601.7
60°	678.5	622.5	566.7	529.2	515.3
62.5°	582.8	533.9	487.4	454.6	438.4
65°	492.0	452.4	415.2	382.4	370.8
67.5°	403.4	382.4	352.0	326.5	319.4
70°	328.7	317.0	296.2	284.4	275.1
72.5°	261.2	265.8	251.9	247.2	240.1
75°	209.8	212.2	214.4	207.6	202.9
77.5°	158.6	170.1	179.4	174.8	170.1
80°	119.0	130.5	146.9	140.0	140.0
82.5°	81.5	95.7	109.7	105.0	102.6
85°	46.8	60.7	74.7	70.0	65.4
87.5°	18.6	30.4	32.6	32.6	30.4
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)