

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: P1050942

Luminaire Tested: 24PTR-45-PR1-L835-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050942
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737735)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-45-PR1-L835-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND RIPPLE LENS

Light Source:
Ballast/Driver: -

Summary

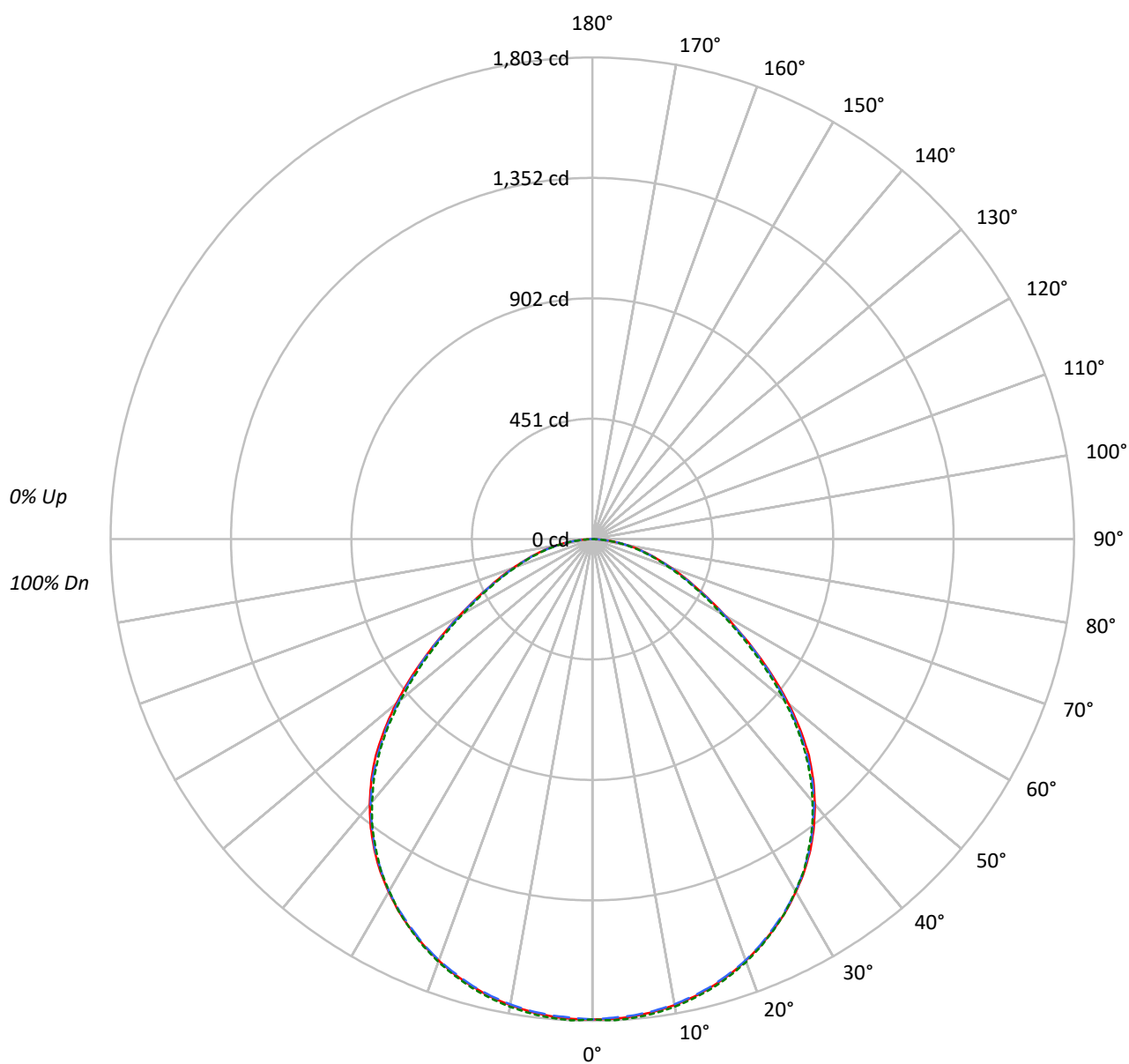
Lumens per Lamp: N/A
Luminaire Lumens: 4547.4 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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: P1050942

CATALOG NUMBER: 24PTR-45-PR1-L835-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1050942

CATALOG NUMBER: 24PTR-45-PR1-L835-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	92	90	91	89	88	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62		
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54		
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	47		
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41		
7	67	54	45	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37		
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33		
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30		
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2419	2419	2419
5°	2422	2416	2430
10°	2419	2415	2429
15°	2415	2411	2423
20°	2405	2402	2411
25°	2389	2383	2392
30°	2368	2365	2362
35°	2335	2330	2320
40°	2276	2267	2251
45°	2181	2157	2141
50°	2007	1985	1960
55°	1776	1769	1734
60°	1544	1538	1496
65°	1360	1352	1325
70°	1234	1217	1192
75°	1143	1116	1095
80°	1043	1029	994
85°	824	817	784

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2181 cd/sqm

TEST NUMBER: P1050942

CATALOG NUMBER: 24PTR-45-PR1-L835-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.5	3.8
10°-20°	489.6	10.8
20°-30°	741.7	16.3
30°-40°	885.4	19.5
40°-50°	870.7	19.1
50°-60°	673.0	14.8
60°-70°	424.3	9.3
70°-80°	229.5	5.0
80°-90°	62.7	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°	1401.8	30.8
0°-40°	2287.1	50.3
0°-60°	3830.8	84.2
0°-90°	4547.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4547.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1798	1798	1798	1798	1798	
5°	1793	1794	1789	1797	1799	170
15°	1734	1734	1731	1737	1739	489
25°	1609	1610	1605	1610	1611	742
35°	1422	1422	1418	1417	1413	888
45°	1146	1142	1134	1125	1125	878
55°	757	764	754	742	739	680
65°	427	428	425	418	416	430
75°	220	217	215	216	211	234
85°	53	54	53	53	51	64
90°	0	0	0	0	0	

TEST NUMBER: P1050942

CATALOG NUMBER: 24PTR-45-PR1-L835-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1798.1	1798.1	1798.1	1798.1	1798.1
2.5°	1797.4	1798.1	1792.9	1801.4	1803.2
5°	1792.9	1793.6	1789.0	1796.7	1798.8
7.5°	1783.8	1785.2	1780.8	1788.5	1790.4
10°	1770.9	1772.3	1767.9	1775.6	1777.5
12.5°	1755.0	1755.5	1751.7	1758.8	1760.6
15°	1733.7	1734.2	1731.1	1736.7	1739.3
17.5°	1709.1	1709.8	1705.4	1712.4	1713.6
20°	1679.6	1680.1	1677.5	1683.4	1684.1
22.5°	1646.6	1648.0	1644.0	1649.2	1649.9
25°	1609.4	1610.5	1605.4	1610.5	1611.2
27.5°	1570.0	1570.5	1566.0	1570.0	1569.3
30°	1524.1	1528.1	1522.3	1520.9	1520.4
32.5°	1476.6	1477.1	1471.4	1470.0	1472.6
35°	1421.8	1422.3	1418.5	1416.7	1412.7
37.5°	1361.9	1361.9	1354.6	1353.4	1352.7
40°	1296.1	1295.4	1290.9	1286.5	1281.8
42.5°	1224.4	1225.8	1216.7	1209.0	1207.8
45°	1146.4	1142.0	1133.6	1124.7	1125.4
47.5°	1054.4	1055.6	1044.1	1036.8	1035.0
50°	958.9	958.9	948.1	940.4	936.4
52.5°	859.1	859.8	849.5	839.2	837.1
55°	757.3	763.6	754.0	741.8	739.2
57.5°	662.0	667.1	658.0	645.1	644.4
60°	573.7	574.2	571.6	559.4	556.1
62.5°	498.3	495.0	493.6	487.3	483.3
65°	427.3	428.0	424.8	417.5	416.3
67.5°	370.0	369.3	363.4	359.0	356.4
70°	313.8	311.9	309.3	305.6	303.0
72.5°	263.7	263.7	261.6	260.4	255.9
75°	219.9	217.3	214.7	215.9	210.7
77.5°	178.0	175.4	173.3	170.7	169.5
80°	134.6	132.1	132.8	128.8	128.3
82.5°	93.4	93.4	92.3	89.0	89.7
85°	53.4	54.1	52.9	53.4	50.8
87.5°	19.4	19.9	21.3	19.9	19.9
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)