

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: P1050557

Luminaire Tested: 24PTR-45-PB1-L835-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050557
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-L835-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

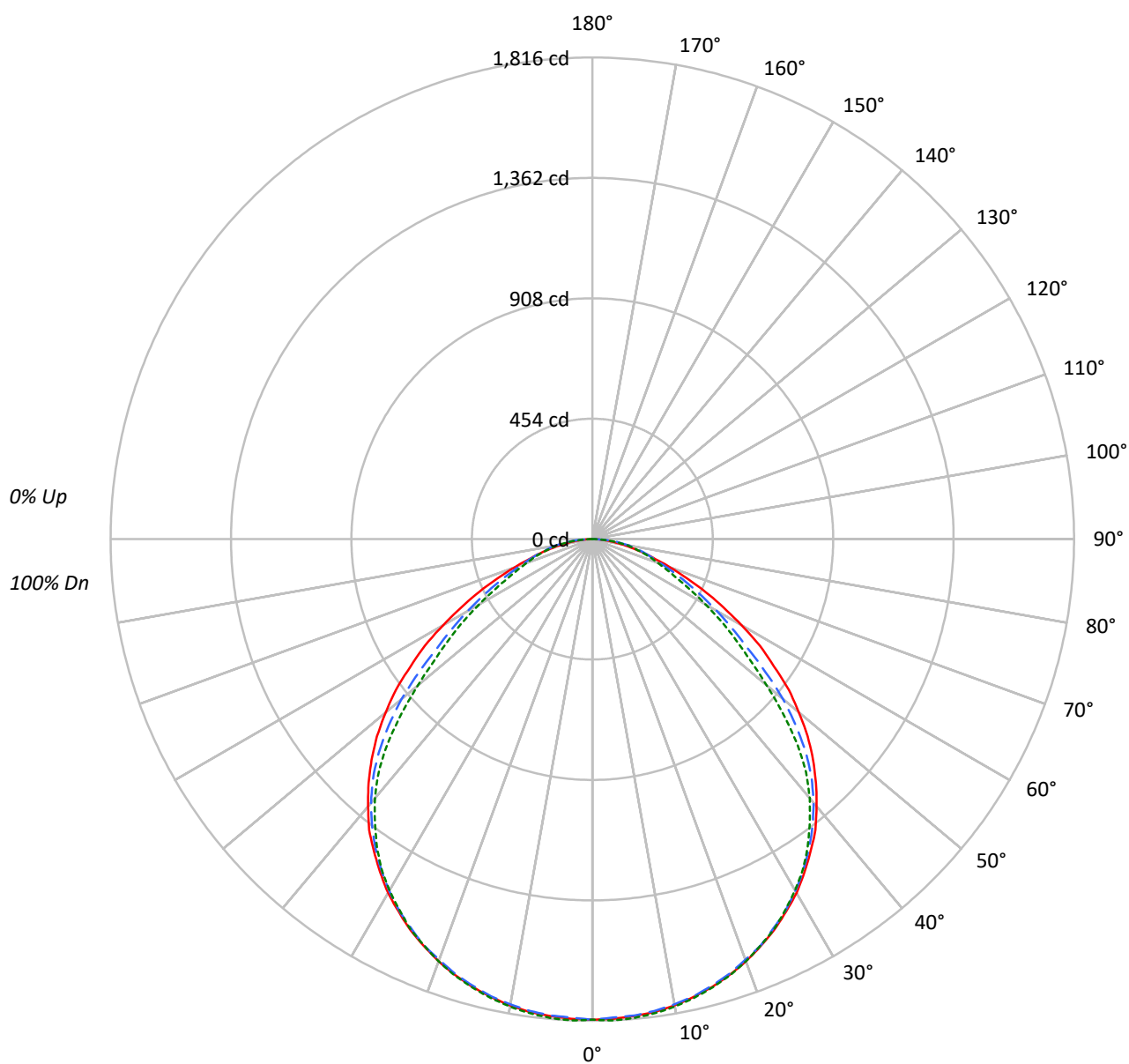
Lumens per Lamp: N/A
Luminaire Lumens: 4518.3 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2438	2438	2438
5°	2438	2435	2447
10°	2439	2433	2445
15°	2434	2428	2437
20°	2425	2416	2425
25°	2412	2402	2409
30°	2393	2379	2375
35°	2358	2339	2325
40°	2310	2278	2239
45°	2239	2167	2078
50°	2128	1964	1796
55°	1961	1668	1547
60°	1745	1458	1325
65°	1497	1263	1129
70°	1236	1114	1035
75°	1042	1066	1009
80°	881	1088	1037
85°	690	1102	965

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2239 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.8	3.8
10°-20°	493.0	10.9
20°-30°	746.8	16.5
30°-40°	889.8	19.7
40°-50°	870.2	19.3
50°-60°	658.2	14.6
60°-70°	404.4	8.9
70°-80°	215.4	4.8
80°-90°	68.7	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°	1411.6	31.2
0°-40°	2301.4	50.9
0°-60°	3829.7	84.8
0°-90°	4518.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4518.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1812	1812	1812	1812	1812	
5°	1805	1808	1803	1810	1812	172
15°	1747	1750	1743	1750	1750	493
25°	1625	1622	1618	1620	1622	748
35°	1435	1433	1424	1418	1415	898
45°	1177	1170	1139	1101	1092	905
55°	836	793	711	671	660	748
65°	470	432	397	366	354	468
75°	200	203	205	198	194	215
85°	45	58	71	67	62	54
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1812.0	1812.0	1812.0	1812.0	1812.0
2.5°	1809.9	1812.0	1805.2	1814.3	1816.4
5°	1805.2	1807.5	1803.1	1809.9	1812.0
7.5°	1798.6	1798.6	1794.2	1800.7	1803.1
10°	1785.3	1785.3	1780.9	1787.4	1789.8
12.5°	1767.5	1767.5	1765.2	1769.6	1772.0
15°	1747.4	1749.5	1743.0	1749.5	1749.5
17.5°	1722.8	1720.7	1718.4	1722.8	1725.2
20°	1693.8	1693.8	1687.3	1691.7	1693.8
22.5°	1660.4	1660.4	1658.3	1660.4	1658.3
25°	1624.8	1622.5	1618.0	1620.3	1622.5
27.5°	1582.4	1582.4	1578.0	1578.0	1575.7
30°	1540.1	1537.7	1531.2	1526.8	1528.9
32.5°	1488.8	1486.5	1480.0	1475.5	1477.6
35°	1435.3	1433.2	1424.3	1417.5	1415.4
37.5°	1381.9	1375.1	1363.9	1355.0	1346.1
40°	1315.0	1308.2	1297.2	1277.1	1274.8
42.5°	1248.1	1241.5	1223.5	1199.2	1192.4
45°	1176.7	1170.2	1138.8	1100.9	1092.0
47.5°	1100.9	1089.9	1040.8	994.0	976.2
50°	1016.4	996.3	938.3	878.1	858.0
52.5°	933.8	898.3	822.5	768.9	749.0
55°	835.8	793.4	711.1	670.8	659.6
57.5°	749.0	691.0	624.0	584.0	575.1
60°	648.6	595.0	541.7	505.9	492.5
62.5°	557.1	510.3	465.9	434.5	419.1
65°	470.3	432.4	396.8	365.5	354.5
67.5°	385.6	365.5	336.5	312.1	305.4
70°	314.2	303.0	283.1	271.9	263.0
72.5°	249.7	254.1	240.8	236.3	229.5
75°	200.5	202.9	205.0	198.4	194.0
77.5°	151.6	162.6	171.5	167.1	162.6
80°	113.7	124.7	140.4	133.8	133.8
82.5°	77.9	91.5	104.8	100.4	98.0
85°	44.7	58.0	71.4	66.9	62.5
87.5°	17.8	29.0	31.1	31.1	29.0
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)