

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: P1050634

Luminaire Tested: 24PTR-45-PC3-L835-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050634
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-L835-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PARAMID LENS

Light Source:
Ballast/Driver: -

Summary

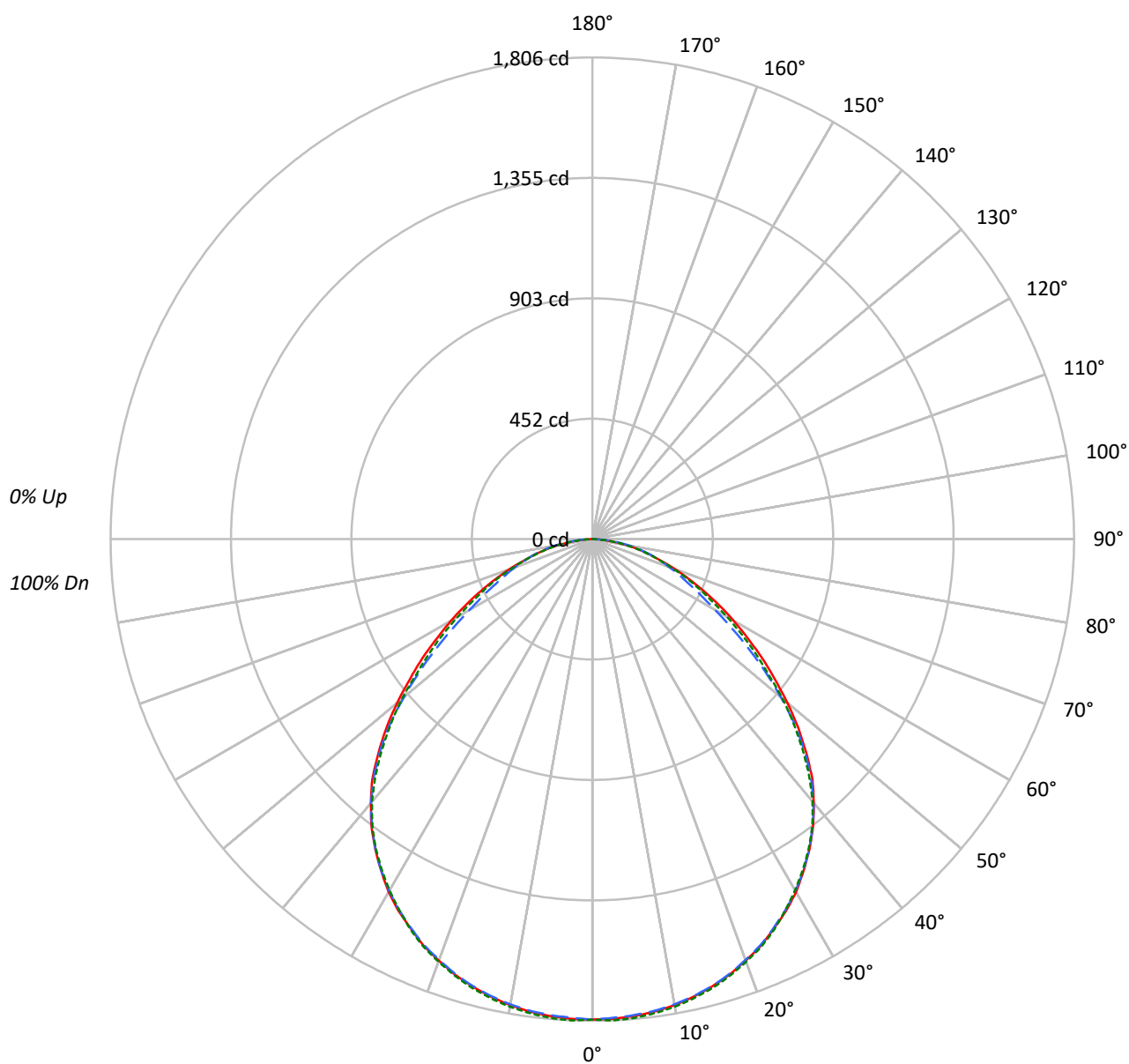
Lumens per Lamp: N/A
Luminaire Lumens: 4541.6 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72		
3	92	82	74	68	90	80	73	68	77	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	46	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	40	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2424	2424	2424
5°	2425	2420	2434
10°	2424	2420	2433
15°	2419	2416	2427
20°	2408	2404	2414
25°	2391	2388	2397
30°	2373	2366	2362
35°	2331	2328	2324
40°	2269	2266	2255
45°	2158	2142	2120
50°	1997	1930	1952
55°	1823	1675	1750
60°	1644	1429	1567
65°	1469	1278	1409
70°	1303	1209	1267
75°	1153	1172	1129
80°	994	1119	989
85°	744	886	744

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 2163 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.9	3.8
10°-20°	490.4	10.8
20°-30°	742.5	16.3
30°-40°	885.2	19.5
40°-50°	865.0	19.0
50°-60°	661.4	14.6
60°-70°	424.6	9.4
70°-80°	236.2	5.2
80°-90°	65.3	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°	1403.8	30.9
0°-40°	2289.0	50.4
0°-60°	3815.4	84.0
0°-90°	4541.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4541.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1801	1801	1801	1801	1801	
5°	1795	1796	1792	1800	1802	171
15°	1736	1738	1734	1740	1742	490
25°	1611	1613	1608	1613	1615	743
35°	1419	1420	1418	1417	1415	886
45°	1134	1137	1126	1123	1114	873
55°	777	750	714	723	746	695
65°	461	426	402	415	443	460
75°	222	224	225	222	217	237
85°	48	57	57	56	48	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1801.4	1801.4	1801.4	1801.4	1801.4
2.5°	1800.2	1800.9	1796.2	1804.0	1806.5
5°	1795.1	1796.2	1791.8	1800.2	1802.1
7.5°	1787.3	1788.5	1784.1	1792.5	1793.2
10°	1774.5	1775.2	1771.2	1779.6	1780.8
12.5°	1757.1	1759.0	1754.6	1762.3	1762.8
15°	1736.3	1737.7	1734.4	1740.3	1742.2
17.5°	1712.0	1712.7	1709.4	1715.7	1716.4
20°	1681.5	1681.5	1679.0	1686.2	1686.2
22.5°	1650.6	1648.8	1648.1	1650.6	1654.6
25°	1610.8	1612.7	1608.3	1613.4	1614.6
27.5°	1572.2	1572.2	1568.2	1570.8	1567.5
30°	1527.7	1525.2	1522.6	1523.0	1520.0
32.5°	1474.1	1474.1	1473.0	1473.0	1469.0
35°	1418.9	1420.0	1417.5	1416.8	1414.9
37.5°	1359.4	1361.5	1356.8	1355.7	1354.3
40°	1291.8	1291.8	1289.9	1287.3	1284.0
42.5°	1221.5	1221.5	1213.3	1206.8	1202.3
45°	1134.0	1136.6	1125.5	1123.0	1114.1
47.5°	1046.9	1045.0	1030.3	1028.4	1023.2
50°	954.2	943.2	922.1	927.7	932.4
52.5°	861.5	847.9	817.0	823.3	831.1
55°	777.0	750.1	714.0	722.9	746.1
57.5°	688.7	652.7	616.6	633.5	662.3
60°	610.8	570.3	530.9	549.0	582.4
62.5°	536.1	493.0	461.4	478.7	507.1
65°	461.4	425.8	401.5	414.8	442.7
67.5°	393.1	369.2	352.6	358.9	381.3
70°	331.3	316.3	307.4	309.2	322.1
72.5°	272.5	268.7	265.5	265.5	266.6
75°	221.7	223.6	225.4	222.4	217.2
77.5°	174.6	181.0	185.6	179.1	172.8
80°	128.3	138.6	144.4	137.2	127.6
82.5°	87.6	99.3	101.1	96.7	85.7
85°	48.2	56.7	57.4	55.5	48.2
87.5°	18.0	21.3	23.2	21.3	18.7
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)