

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: P1050480

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

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050480
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2310-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-45-L835-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

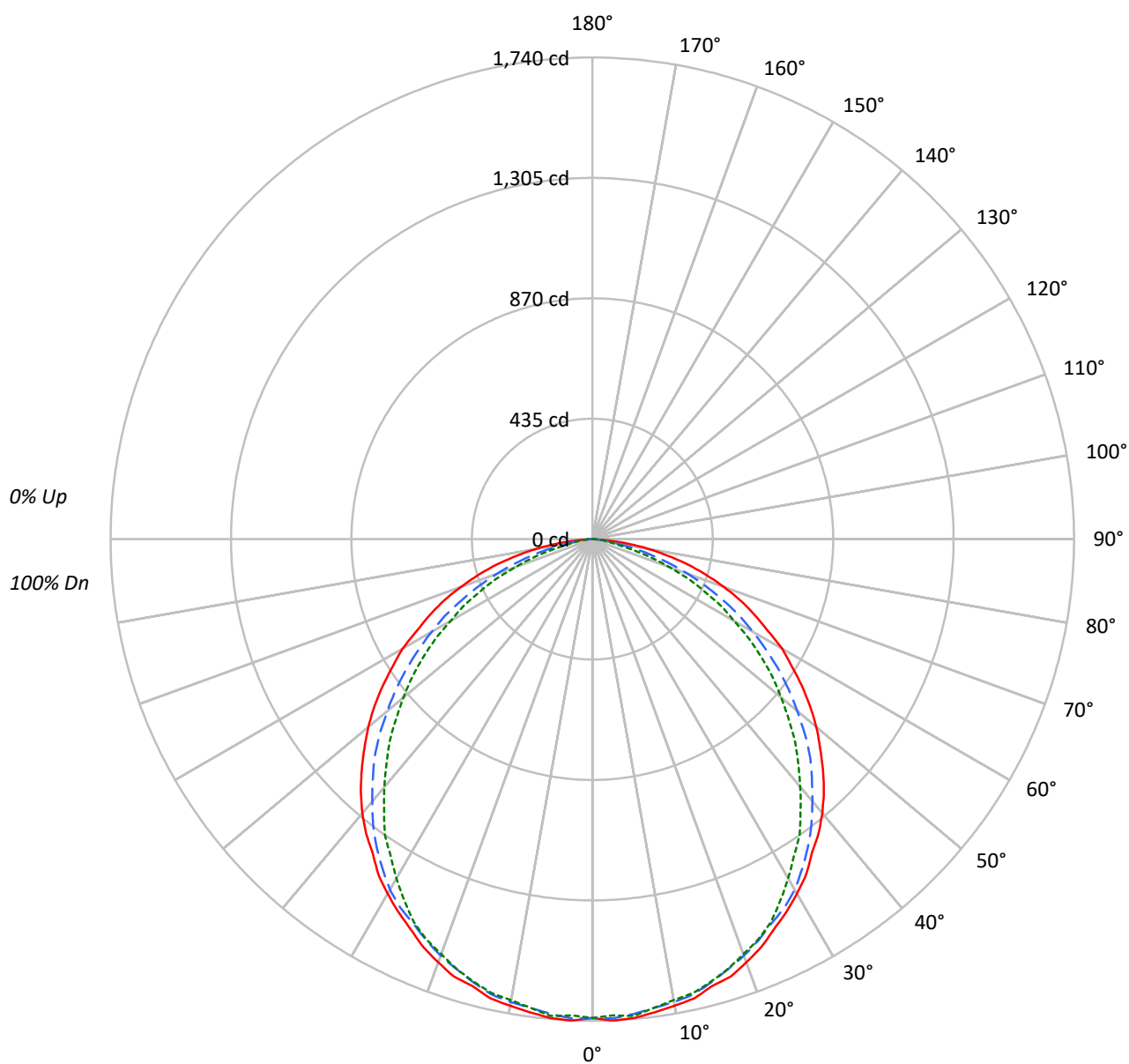
Lumens per Lamp: N/A
Luminaire Lumens: 4608.6 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	87	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	74	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	63	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	54	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	42	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	37	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	33	33	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	30	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	27	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2328	2328	2328
5°	2345	2326	2335
10°	2338	2320	2310
15°	2328	2310	2305
20°	2330	2293	2284
25°	2307	2273	2266
30°	2297	2272	2198
35°	2271	2231	2144
40°	2270	2172	2053
45°	2241	2116	1971
50°	2211	2021	1864
55°	2168	1927	1750
60°	2130	1802	1589
65°	2057	1654	1421
70°	1991	1439	1159
75°	1869	1136	798
80°	1621	687	479
85°	1082	492	462

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2241 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.0	3.6
10°-20°	469.3	10.2
20°-30°	708.9	15.4
30°-40°	842.9	18.3
40°-50°	854.8	18.5
50°-60°	742.3	16.1
60°-70°	526.9	11.4
70°-80°	251.8	5.5
80°-90°	47.7	1.0
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°	1342.2	29.1
0°-40°	2185.0	47.4
0°-60°	3782.1	82.1
0°-90°	4608.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4608.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1730	1730	1730	1730	1730	
5°	1736	1730	1722	1726	1729	165
15°	1671	1676	1658	1656	1655	473
25°	1554	1552	1531	1538	1526	718
35°	1383	1381	1358	1312	1306	869
45°	1178	1168	1112	1053	1036	909
55°	924	896	821	773	746	826
65°	646	598	519	464	446	640
75°	360	294	218	173	154	377
85°	70	37	32	31	30	88
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1730.2	1730.2	1730.2	1730.2	1730.2
2.5°	1740.5	1734.3	1732.2	1739.5	1721.9
5°	1736.4	1730.2	1721.9	1726.1	1729.1
7.5°	1724.0	1718.8	1707.5	1716.8	1707.5
10°	1711.6	1706.5	1698.2	1701.3	1691.0
12.5°	1699.3	1686.9	1684.8	1686.9	1679.7
15°	1671.4	1675.6	1658.0	1656.0	1655.0
17.5°	1658.0	1647.7	1629.2	1630.2	1628.2
20°	1627.1	1614.8	1601.4	1599.3	1595.2
22.5°	1595.2	1580.8	1568.4	1574.6	1565.3
25°	1554.0	1551.9	1531.3	1537.5	1526.1
27.5°	1517.9	1510.7	1501.4	1488.0	1471.5
30°	1478.7	1471.5	1462.3	1427.2	1414.9
32.5°	1437.5	1429.3	1410.7	1369.5	1356.1
35°	1382.9	1380.8	1358.2	1311.8	1305.6
37.5°	1341.7	1319.0	1300.5	1253.1	1235.5
40°	1292.2	1279.9	1236.6	1191.2	1168.6
42.5°	1237.6	1223.2	1173.7	1125.3	1100.6
45°	1177.8	1167.5	1111.9	1053.2	1035.6
47.5°	1116.0	1106.7	1040.8	984.1	961.4
50°	1056.2	1044.9	965.6	910.9	890.3
52.5°	991.3	972.8	894.5	840.9	821.3
55°	924.3	896.5	821.3	772.9	746.1
57.5°	853.2	827.5	744.0	693.5	671.9
60°	791.4	755.3	669.8	618.3	590.5
62.5°	712.1	681.1	599.7	538.9	525.5
65°	646.1	597.7	519.4	463.7	446.2
67.5°	579.1	522.5	443.1	386.4	377.2
70°	506.0	447.2	365.8	310.2	294.7
72.5°	431.8	374.1	294.7	236.0	226.7
75°	359.6	293.7	218.5	173.1	153.5
77.5°	281.3	221.6	153.5	106.1	93.8
80°	209.2	149.4	88.6	62.9	61.8
82.5°	137.1	86.6	47.4	48.4	46.4
85°	70.1	37.1	31.9	30.9	29.9
87.5°	13.4	14.4	15.5	15.5	15.5
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)