

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: P1050469

Luminaire Tested: 24PTR-45-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050469
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-L830-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

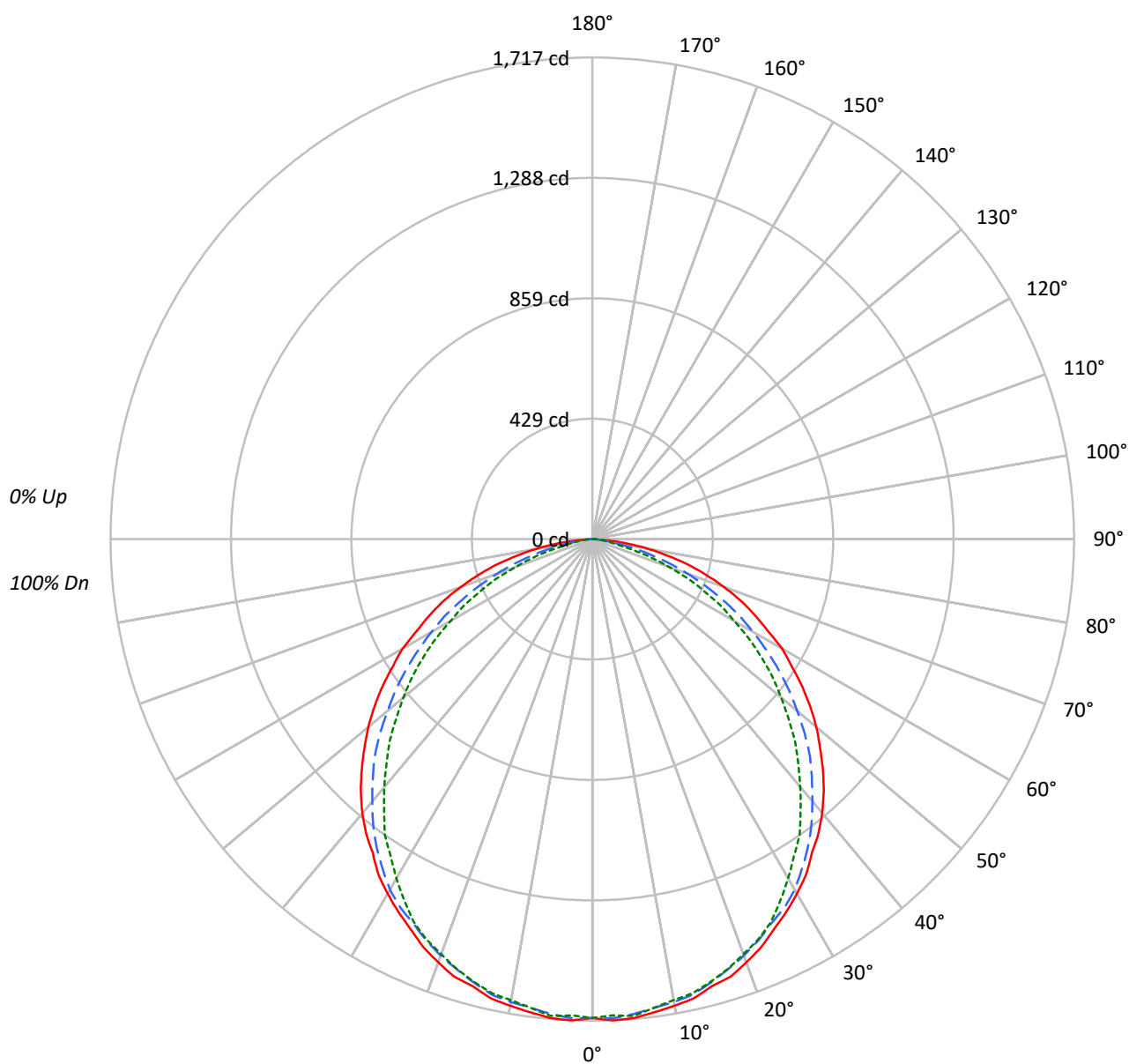
Lumens per Lamp: N/A
Luminaire Lumens: 4547.3 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1050469

CATALOG NUMBER: 24PTR-45-L830-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1050469

CATALOG NUMBER: 24PTR-45-L830-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	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°	2297	2297	2297
5°	2314	2295	2304
10°	2307	2289	2280
15°	2297	2279	2275
20°	2299	2262	2254
25°	2276	2243	2235
30°	2267	2242	2169
35°	2241	2201	2116
40°	2239	2143	2025
45°	2211	2088	1944
50°	2182	1994	1839
55°	2139	1901	1727
60°	2101	1778	1568
65°	2030	1632	1402
70°	1964	1420	1144
75°	1845	1121	788
80°	1599	677	473
85°	1067	486	455

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2211 cd/sqm

TEST NUMBER: P1050469

CATALOG NUMBER: 24PTR-45-L830-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.8	3.6
10°-20°	463.1	10.2
20°-30°	699.4	15.4
30°-40°	831.6	18.3
40°-50°	843.4	18.5
50°-60°	732.4	16.1
60°-70°	519.9	11.4
70°-80°	248.5	5.5
80°-90°	47.1	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°	1324.3	29.1
0°-40°	2156.0	47.4
0°-60°	3731.8	82.1
0°-90°	4547.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4547.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1707	1707	1707	1707	1707	
5°	1713	1707	1699	1703	1706	163
15°	1649	1653	1636	1634	1633	467
25°	1533	1531	1511	1517	1506	708
35°	1364	1362	1340	1294	1288	857
45°	1162	1152	1097	1039	1022	896
55°	912	885	810	763	736	815
65°	638	590	512	458	440	631
75°	355	290	216	171	152	372
85°	69	37	32	30	30	87
90°	0	0	0	0	0	

TEST NUMBER: P1050469

CATALOG NUMBER: 24PTR-45-L830-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1707.1	1707.1	1707.1	1707.1	1707.1
2.5°	1717.3	1711.2	1709.2	1716.3	1699.0
5°	1713.3	1707.1	1699.0	1703.1	1706.1
7.5°	1701.0	1696.0	1684.8	1693.9	1684.8
10°	1688.8	1683.8	1675.6	1678.7	1668.5
12.5°	1676.6	1664.4	1662.4	1664.4	1657.3
15°	1649.2	1653.3	1636.0	1633.9	1632.9
17.5°	1636.0	1625.8	1607.5	1608.5	1606.5
20°	1605.5	1593.3	1580.1	1578.0	1574.0
22.5°	1574.0	1559.7	1547.5	1553.6	1544.5
25°	1533.3	1531.2	1510.9	1517.0	1505.8
27.5°	1497.7	1490.6	1481.4	1468.2	1451.9
30°	1459.1	1451.9	1442.8	1408.2	1396.0
32.5°	1418.4	1410.3	1392.0	1351.3	1338.1
35°	1364.5	1362.5	1340.1	1294.3	1288.2
37.5°	1323.8	1301.5	1283.2	1236.4	1219.1
40°	1275.0	1262.8	1220.1	1175.4	1153.0
42.5°	1221.1	1206.9	1158.1	1110.3	1085.9
45°	1162.2	1152.0	1097.1	1039.1	1021.8
47.5°	1101.2	1092.0	1026.9	971.0	948.6
50°	1042.2	1031.0	952.7	898.8	878.5
52.5°	978.1	959.8	882.6	829.7	810.4
55°	912.0	884.6	810.4	762.6	736.1
57.5°	841.9	816.5	734.1	684.3	662.9
60°	780.9	745.3	660.9	610.1	582.6
62.5°	702.6	672.1	591.8	531.8	518.6
65°	637.5	589.7	512.5	457.5	440.3
67.5°	571.4	515.5	437.2	381.3	372.1
70°	499.2	441.3	361.0	306.0	290.8
72.5°	426.0	369.1	290.8	232.8	223.7
75°	354.9	289.8	215.6	170.8	151.5
77.5°	277.6	218.6	151.5	104.7	92.5
80°	206.4	147.4	87.4	62.0	61.0
82.5°	135.2	85.4	46.8	47.8	45.8
85°	69.1	36.6	31.5	30.5	29.5
87.5°	13.2	14.2	15.3	15.3	15.3
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)