

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: P1050491

Luminaire Tested: 24PTR-45-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050491
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-L840-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

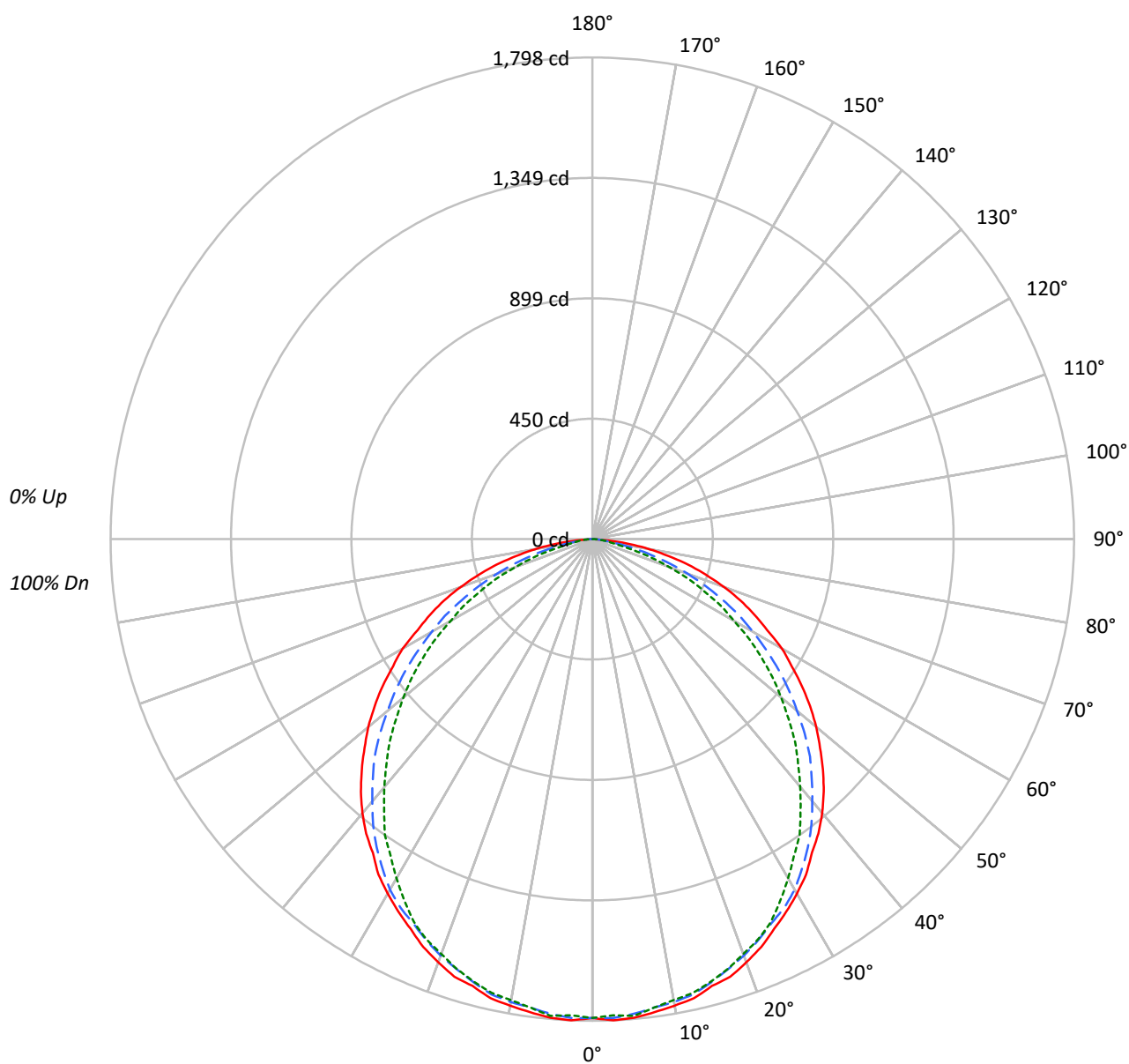
Lumens per Lamp: N/A
Luminaire Lumens: 4761.0 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2405	2405	2405
5°	2423	2403	2413
10°	2416	2397	2387
15°	2405	2386	2382
20°	2407	2369	2360
25°	2383	2348	2341
30°	2373	2347	2271
35°	2347	2305	2215
40°	2345	2244	2120
45°	2315	2186	2036
50°	2284	2088	1925
55°	2240	1990	1808
60°	2200	1862	1641
65°	2125	1708	1468
70°	2056	1487	1198
75°	1931	1173	824
80°	1674	710	495
85°	1118	509	477

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2315 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.4	3.6
10°-20°	484.8	10.2
20°-30°	732.3	15.4
30°-40°	870.7	18.3
40°-50°	883.1	18.5
50°-60°	766.8	16.1
60°-70°	544.4	11.4
70°-80°	260.1	5.5
80°-90°	49.3	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°	1386.6	29.1
0°-40°	2257.3	47.4
0°-60°	3907.2	82.1
0°-90°	4761.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4761.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1787	1787	1787	1787	1787	
5°	1794	1787	1779	1783	1786	170
15°	1727	1731	1713	1711	1710	489
25°	1605	1603	1582	1588	1577	741
35°	1429	1426	1403	1355	1349	898
45°	1217	1206	1149	1088	1070	939
55°	955	926	848	798	771	853
65°	668	617	536	479	461	661
75°	372	303	226	179	159	390
85°	72	38	33	32	31	91
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1787.4	1787.4	1787.4	1787.4	1787.4
2.5°	1798.0	1791.6	1789.5	1797.0	1778.9
5°	1793.8	1787.4	1778.9	1783.1	1786.3
7.5°	1781.0	1775.7	1764.0	1773.5	1764.0
10°	1768.2	1762.9	1754.4	1757.6	1746.9
12.5°	1755.4	1742.7	1740.5	1742.7	1735.2
15°	1726.7	1731.0	1712.9	1710.7	1709.7
17.5°	1712.9	1702.2	1683.1	1684.1	1682.0
20°	1680.9	1668.2	1654.3	1652.2	1647.9
22.5°	1647.9	1633.0	1620.2	1626.6	1617.1
25°	1605.3	1603.2	1581.9	1588.3	1576.6
27.5°	1568.1	1560.6	1551.1	1537.2	1520.2
30°	1527.6	1520.2	1510.6	1474.4	1461.6
32.5°	1485.0	1476.5	1457.4	1414.8	1400.9
35°	1428.6	1426.5	1403.1	1355.2	1348.8
37.5°	1386.0	1362.6	1343.5	1294.5	1276.4
40°	1334.9	1322.2	1277.5	1230.6	1207.2
42.5°	1278.5	1263.6	1212.5	1162.5	1136.9
45°	1216.8	1206.1	1148.7	1088.0	1069.9
47.5°	1152.9	1143.3	1075.2	1016.6	993.2
50°	1091.2	1079.5	997.5	941.1	919.8
52.5°	1024.1	1004.9	924.0	868.7	848.4
55°	954.9	926.2	848.4	798.4	770.7
57.5°	881.4	854.8	768.6	716.4	694.1
60°	817.6	780.3	692.0	638.7	610.0
62.5°	735.6	703.7	619.6	556.8	542.9
65°	667.5	617.4	536.5	479.0	461.0
67.5°	598.3	539.7	457.8	399.2	389.6
70°	522.7	462.0	377.9	320.4	304.5
72.5°	446.0	386.4	304.5	243.8	234.2
75°	371.5	303.4	225.7	178.8	158.6
77.5°	290.6	228.9	158.6	109.6	96.9
80°	216.1	154.4	91.6	64.9	63.9
82.5°	141.6	89.4	49.0	50.0	47.9
85°	72.4	38.3	33.0	31.9	30.9
87.5°	13.8	14.9	16.0	16.0	16.0
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)