

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: P1050722

Luminaire Tested: 24PTR-45-PL1-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050722
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737719)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-45-PL1-L840-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

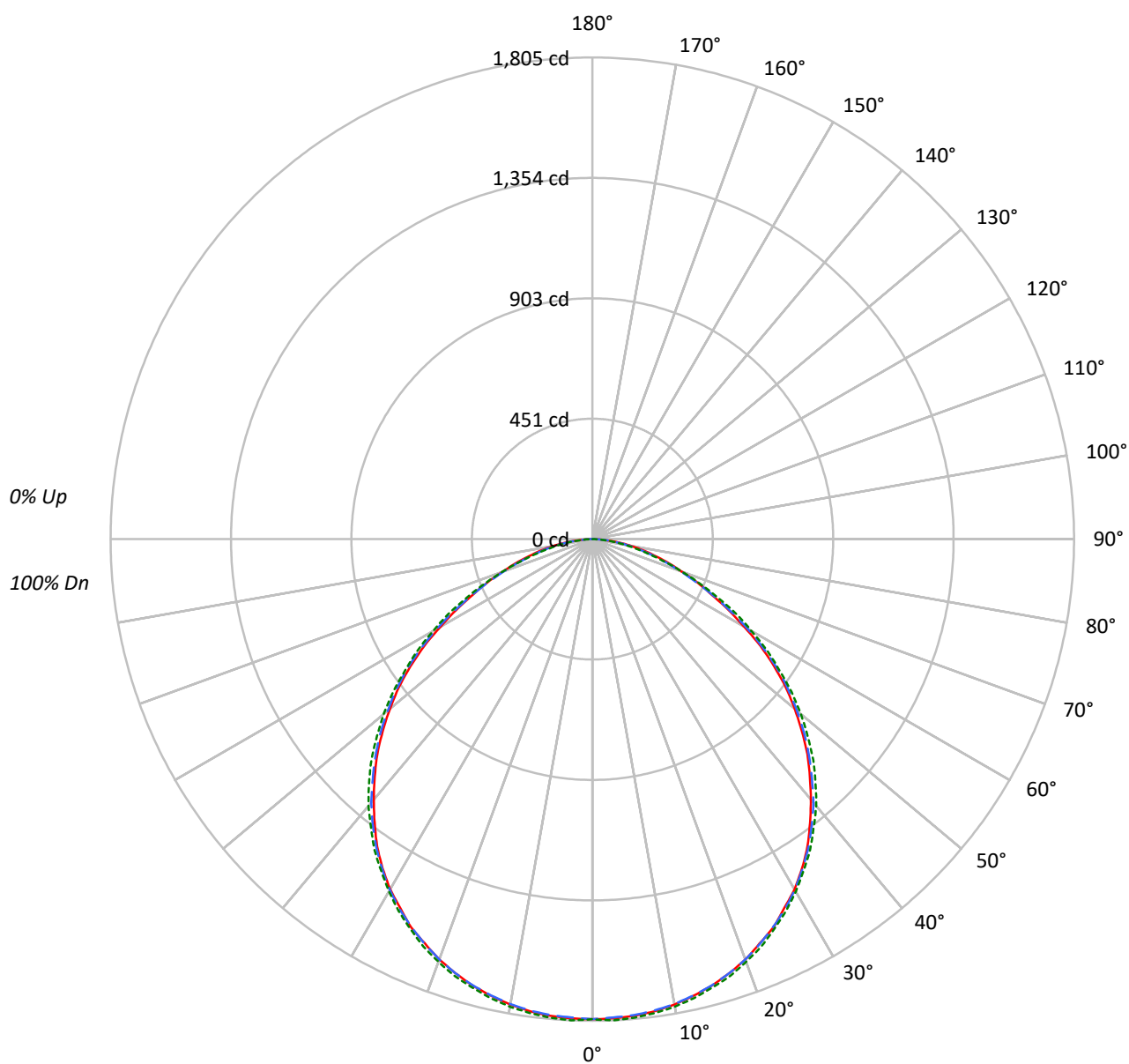
Lumens per Lamp: N/A
Luminaire Lumens: 4742.4 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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: P1050722

CATALOG NUMBER: 24PTR-45-PL1-L840-UNV-STD-W

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	94	92	90	91	89	87	87	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	74	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	63	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	55	55	52
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	48	48	46
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	42	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	37	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	34	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	30	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2421	2421	2421
5°	2423	2418	2432
10°	2420	2417	2431
15°	2412	2411	2423
20°	2400	2400	2414
25°	2384	2381	2394
30°	2354	2357	2368
35°	2309	2318	2337
40°	2237	2263	2292
45°	2167	2185	2227
50°	2072	2094	2136
55°	1952	1983	2006
60°	1770	1808	1853
65°	1572	1589	1653
70°	1406	1377	1411
75°	1268	1195	1171
80°	1152	1070	950
85°	976	886	763

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2227 cd/sqm

TEST NUMBER: P1050722

CATALOG NUMBER: 24PTR-45-PL1-L840-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.7	3.6
10°-20°	489.5	10.3
20°-30°	740.4	15.6
30°-40°	882.5	18.6
40°-50°	887.4	18.7
50°-60°	753.1	15.9
60°-70°	501.5	10.6
70°-80°	250.4	5.3
80°-90°	67.0	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°	1400.5	29.5
0°-40°	2283.0	48.1
0°-60°	3923.5	82.7
0°-90°	4742.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4742.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1799	1799	1799	1799	1799	
5°	1794	1794	1790	1798	1800	170
15°	1732	1734	1731	1738	1740	489
25°	1606	1606	1604	1611	1612	738
35°	1406	1407	1411	1421	1422	877
45°	1139	1141	1148	1164	1171	876
55°	832	838	845	853	855	741
65°	494	498	499	507	519	495
75°	244	240	230	224	225	262
85°	63	62	57	54	49	73
90°	0	0	0	0	0	

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CATALOG NUMBER: 24PTR-45-PL1-L840-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1799.1	1799.1	1799.1	1799.1	1799.1
2.5°	1797.6	1799.1	1794.2	1803.0	1805.1
5°	1793.8	1794.2	1790.4	1798.4	1800.3
7.5°	1785.0	1785.8	1781.7	1790.4	1791.6
10°	1771.0	1772.5	1769.1	1777.1	1779.0
12.5°	1753.1	1755.0	1751.6	1760.3	1761.8
15°	1731.8	1733.7	1731.0	1738.3	1739.8
17.5°	1705.6	1707.1	1705.6	1712.4	1716.3
20°	1676.3	1676.3	1676.3	1682.4	1685.7
22.5°	1639.7	1643.1	1641.7	1649.7	1653.0
25°	1605.8	1605.8	1603.6	1611.1	1612.4
27.5°	1558.3	1563.7	1563.2	1569.7	1571.2
30°	1515.0	1516.4	1517.2	1521.8	1524.4
32.5°	1462.4	1463.6	1465.8	1472.4	1473.1
35°	1405.8	1407.2	1411.1	1421.0	1422.5
37.5°	1339.9	1347.1	1350.5	1361.2	1362.4
40°	1273.8	1278.4	1288.5	1299.7	1305.0
42.5°	1206.4	1211.7	1217.8	1233.1	1237.9
45°	1139.1	1141.0	1148.5	1163.8	1170.6
47.5°	1064.5	1070.5	1077.1	1090.4	1094.5
50°	989.9	996.4	1000.5	1012.4	1020.4
52.5°	914.6	920.6	925.2	932.5	940.5
55°	832.0	837.8	845.3	853.3	855.2
57.5°	747.9	754.5	759.3	767.8	776.5
60°	657.8	665.3	671.9	679.9	688.6
62.5°	574.0	577.2	584.0	597.3	609.9
65°	493.9	498.0	499.2	506.7	519.3
67.5°	427.2	427.2	421.2	423.9	437.9
70°	357.3	354.6	350.0	347.3	358.7
72.5°	300.6	297.2	287.3	282.7	288.7
75°	243.9	240.5	229.9	224.5	225.3
77.5°	195.9	190.6	181.9	172.7	170.8
80°	148.7	146.5	138.1	129.3	122.6
82.5°	105.4	100.8	95.9	90.6	85.3
85°	63.2	62.0	57.4	54.0	49.4
87.5°	25.9	25.9	24.7	23.3	22.0
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)