

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: P1050723

Luminaire Tested: 24PTR-50-PL1-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050723
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-50-PL1-L840-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

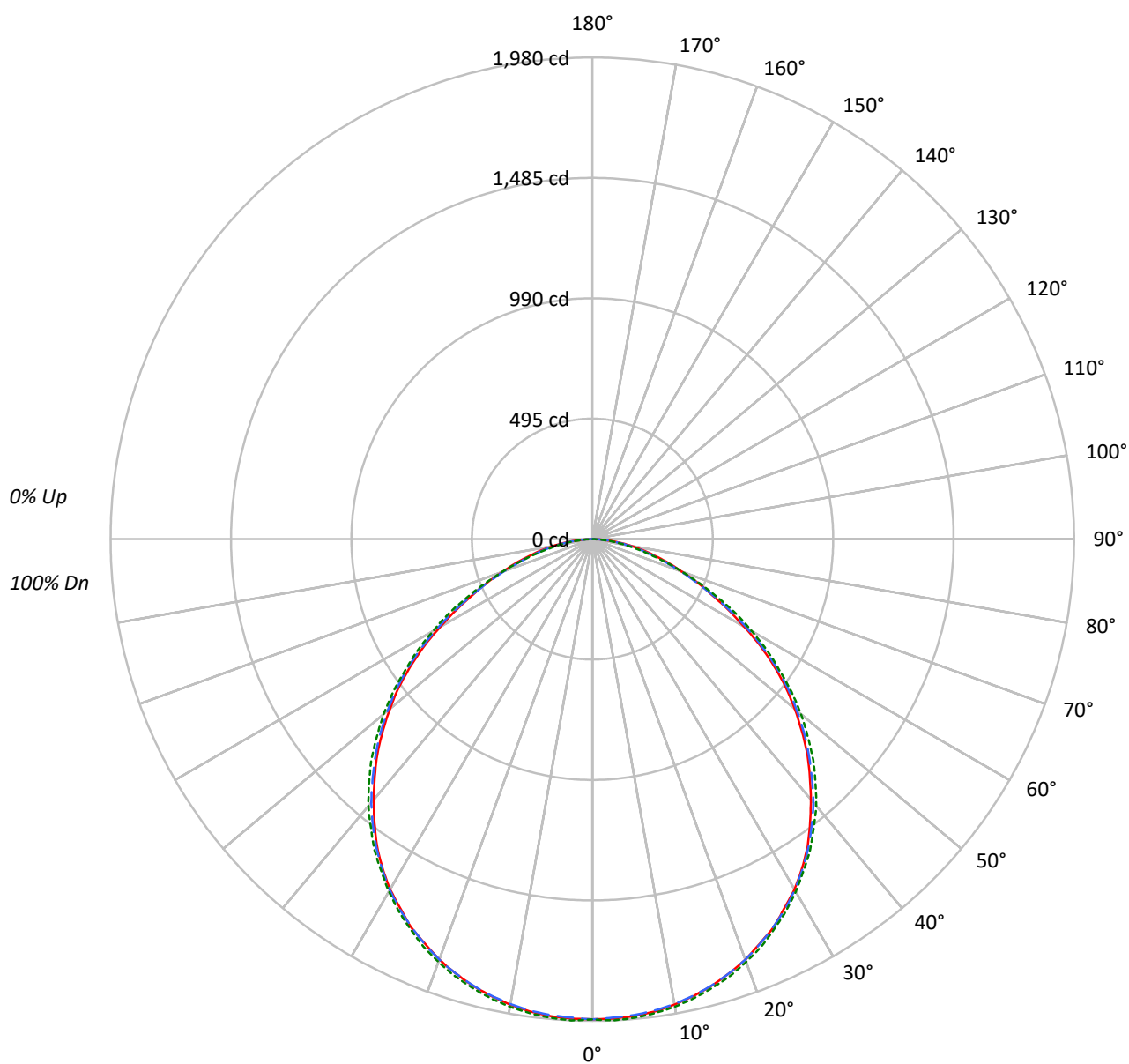
Lumens per Lamp: N/A
Luminaire Lumens: 5203.1 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41
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	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°	2656	2656	2656
5°	2658	2653	2668
10°	2655	2652	2667
15°	2647	2645	2659
20°	2633	2633	2648
25°	2616	2612	2626
30°	2582	2586	2598
35°	2533	2543	2564
40°	2455	2483	2515
45°	2378	2398	2444
50°	2273	2298	2343
55°	2141	2175	2201
60°	1942	1984	2033
65°	1725	1744	1814
70°	1542	1511	1548
75°	1391	1311	1285
80°	1265	1174	1042
85°	1071	973	837

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2444 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.2	3.6
10°-20°	537.0	10.3
20°-30°	812.3	15.6
30°-40°	968.2	18.6
40°-50°	973.6	18.7
50°-60°	826.3	15.9
60°-70°	550.2	10.6
70°-80°	274.7	5.3
80°-90°	73.5	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°	1536.5	29.5
0°-40°	2504.8	48.1
0°-60°	4304.7	82.7
0°-90°	5203.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5203.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1974	1974	1974	1974	1974	
5°	1968	1969	1964	1973	1975	187
15°	1900	1902	1899	1907	1909	536
25°	1762	1762	1759	1768	1769	810
35°	1542	1544	1548	1559	1561	962
45°	1250	1252	1260	1277	1284	961
55°	913	919	927	936	938	813
65°	542	546	548	556	570	543
75°	268	264	252	246	247	287
85°	69	68	63	59	54	80
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1973.9	1973.9	1973.9	1973.9	1973.9
2.5°	1972.3	1973.9	1968.6	1978.1	1980.5
5°	1968.0	1968.6	1964.3	1973.1	1975.2
7.5°	1958.5	1959.3	1954.8	1964.3	1965.7
10°	1943.1	1944.7	1940.9	1949.7	1951.8
12.5°	1923.4	1925.5	1921.8	1931.4	1933.0
15°	1900.0	1902.1	1899.2	1907.2	1908.8
17.5°	1871.3	1872.9	1871.3	1878.8	1883.0
20°	1839.2	1839.2	1839.2	1845.8	1849.5
22.5°	1799.0	1802.8	1801.2	1809.9	1813.6
25°	1761.8	1761.8	1759.4	1767.7	1769.0
27.5°	1709.7	1715.6	1715.1	1722.2	1723.8
30°	1662.2	1663.8	1664.6	1669.6	1672.5
32.5°	1604.5	1605.8	1608.2	1615.4	1616.2
35°	1542.3	1543.9	1548.2	1559.1	1560.7
37.5°	1470.1	1478.0	1481.7	1493.4	1494.8
40°	1397.5	1402.6	1413.7	1425.9	1431.8
42.5°	1323.6	1329.5	1336.1	1352.9	1358.2
45°	1249.8	1251.9	1260.1	1276.9	1284.3
47.5°	1167.9	1174.6	1181.7	1196.3	1200.9
50°	1086.1	1093.2	1097.8	1110.8	1119.5
52.5°	1003.4	1010.1	1015.1	1023.1	1031.9
55°	912.8	919.2	927.4	936.2	938.3
57.5°	820.6	827.8	833.1	842.4	852.0
60°	721.7	730.0	737.2	745.9	755.5
62.5°	629.8	633.2	640.7	655.3	669.1
65°	541.8	546.4	547.7	555.9	569.7
67.5°	468.8	468.8	462.1	465.0	480.5
70°	392.0	389.0	384.0	381.1	393.6
72.5°	329.8	326.1	315.2	310.1	316.8
75°	267.6	263.9	252.2	246.3	247.1
77.5°	215.0	209.1	199.6	189.5	187.3
80°	163.2	160.8	151.5	141.9	134.5
82.5°	115.6	110.5	105.2	99.4	93.5
85°	69.4	68.0	63.0	59.3	54.2
87.5°	28.4	28.4	27.1	25.5	24.2
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)