

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: P1050712

Luminaire Tested: 24PTR-50-PL1-L835-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050712
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-L835-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

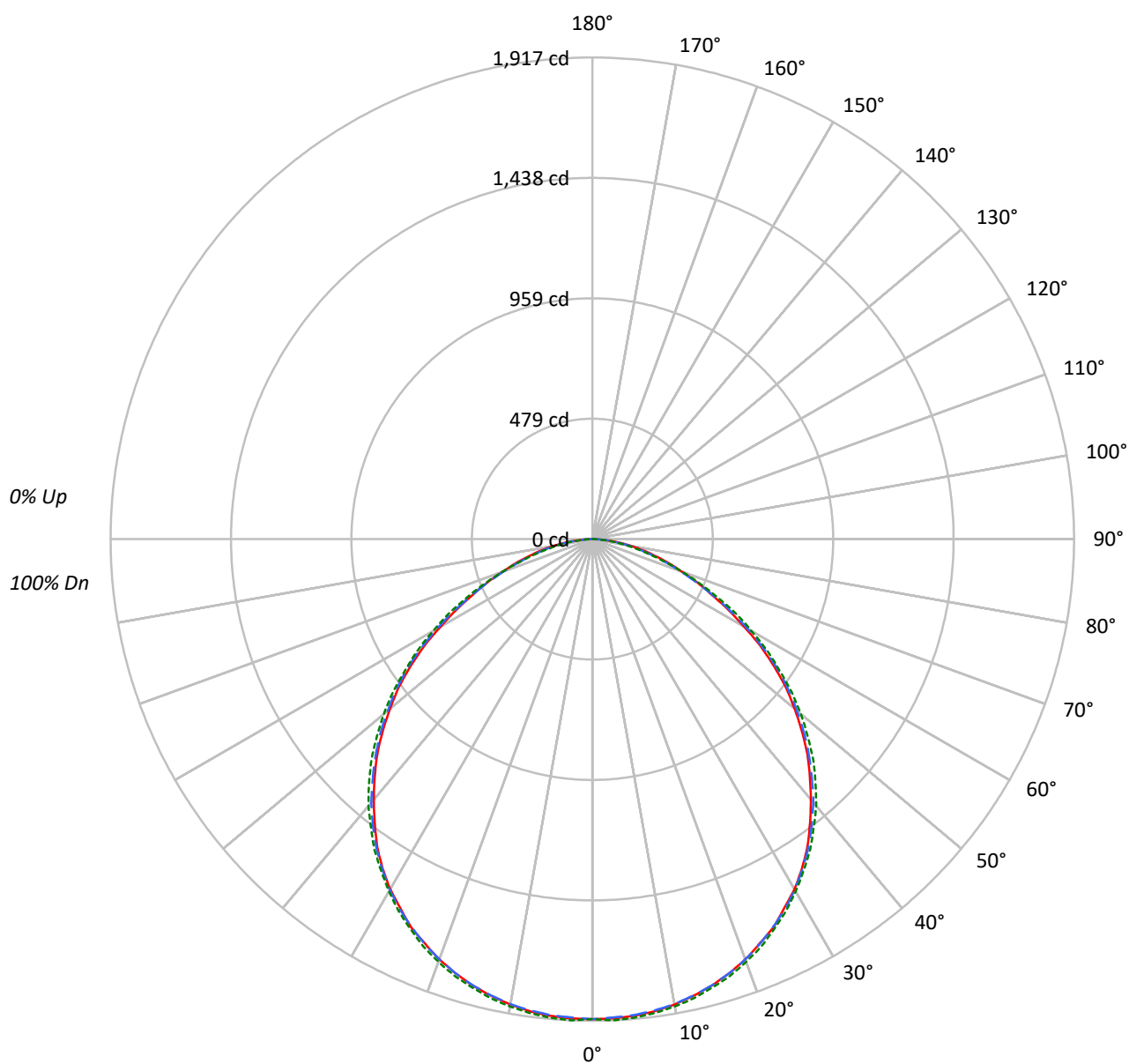
Lumens per Lamp: N/A
Luminaire Lumens: 5036.2 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2571	2571	2571
5°	2573	2568	2582
10°	2570	2567	2581
15°	2562	2561	2574
20°	2549	2549	2563
25°	2532	2528	2542
30°	2500	2503	2515
35°	2452	2461	2481
40°	2376	2403	2434
45°	2302	2321	2365
50°	2200	2224	2268
55°	2073	2106	2130
60°	1880	1920	1968
65°	1670	1688	1756
70°	1493	1462	1498
75°	1346	1269	1243
80°	1223	1136	1009
85°	1036	942	810

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2365 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.2	3.6
10°-20°	519.8	10.3
20°-30°	786.2	15.6
30°-40°	937.2	18.6
40°-50°	942.4	18.7
50°-60°	799.8	15.9
60°-70°	532.5	10.6
70°-80°	265.9	5.3
80°-90°	71.1	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°	1487.3	29.5
0°-40°	2424.5	48.1
0°-60°	4166.7	82.7
0°-90°	5036.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5036.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1911	1911	1911	1911	1911	
5°	1905	1905	1901	1910	1912	181
15°	1839	1841	1838	1846	1848	519
25°	1705	1705	1703	1711	1712	784
35°	1493	1494	1498	1509	1511	931
45°	1210	1212	1220	1236	1243	931
55°	884	890	898	906	908	787
65°	524	529	530	538	552	526
75°	259	255	244	238	239	278
85°	67	66	61	57	52	78
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1910.6	1910.6	1910.6	1910.6	1910.6
2.5°	1909.1	1910.6	1905.4	1914.7	1917.0
5°	1904.9	1905.4	1901.3	1909.8	1911.9
7.5°	1895.7	1896.4	1892.1	1901.3	1902.6
10°	1880.8	1882.3	1878.7	1887.2	1889.2
12.5°	1861.7	1863.8	1860.2	1869.4	1871.0
15°	1839.1	1841.1	1838.3	1846.0	1847.6
17.5°	1811.3	1812.9	1811.3	1818.5	1822.6
20°	1780.2	1780.2	1780.2	1786.6	1790.2
22.5°	1741.3	1744.9	1743.4	1751.9	1755.5
25°	1705.3	1705.3	1703.0	1711.0	1712.3
27.5°	1654.9	1660.6	1660.1	1667.0	1668.6
30°	1608.9	1610.4	1611.2	1616.1	1618.9
32.5°	1553.1	1554.4	1556.7	1563.6	1564.4
35°	1492.9	1494.4	1498.5	1509.1	1510.6
37.5°	1422.9	1430.6	1434.2	1445.5	1446.8
40°	1352.7	1357.6	1368.4	1380.2	1385.9
42.5°	1281.2	1286.8	1293.3	1309.5	1314.6
45°	1209.7	1211.7	1219.7	1235.9	1243.1
47.5°	1130.5	1136.9	1143.8	1158.0	1162.4
50°	1051.2	1058.2	1062.6	1075.2	1083.6
52.5°	971.2	977.7	982.6	990.3	998.8
55°	883.5	889.7	897.7	906.2	908.2
57.5°	794.3	801.2	806.4	815.4	824.6
60°	698.6	706.6	713.5	722.0	731.3
62.5°	609.6	612.9	620.1	634.3	647.7
65°	524.5	528.8	530.1	538.1	551.5
67.5°	453.7	453.7	447.3	450.1	465.0
70°	379.4	376.6	371.7	368.8	380.9
72.5°	319.2	315.6	305.1	300.2	306.6
75°	259.0	255.4	244.1	238.4	239.2
77.5°	208.1	202.4	193.2	183.4	181.3
80°	157.9	155.6	146.6	137.4	130.2
82.5°	111.9	107.0	101.9	96.2	90.5
85°	67.1	65.8	61.0	57.4	52.5
87.5°	27.5	27.5	26.2	24.7	23.4
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)