

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: P1050481

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

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050481
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-50-L835-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

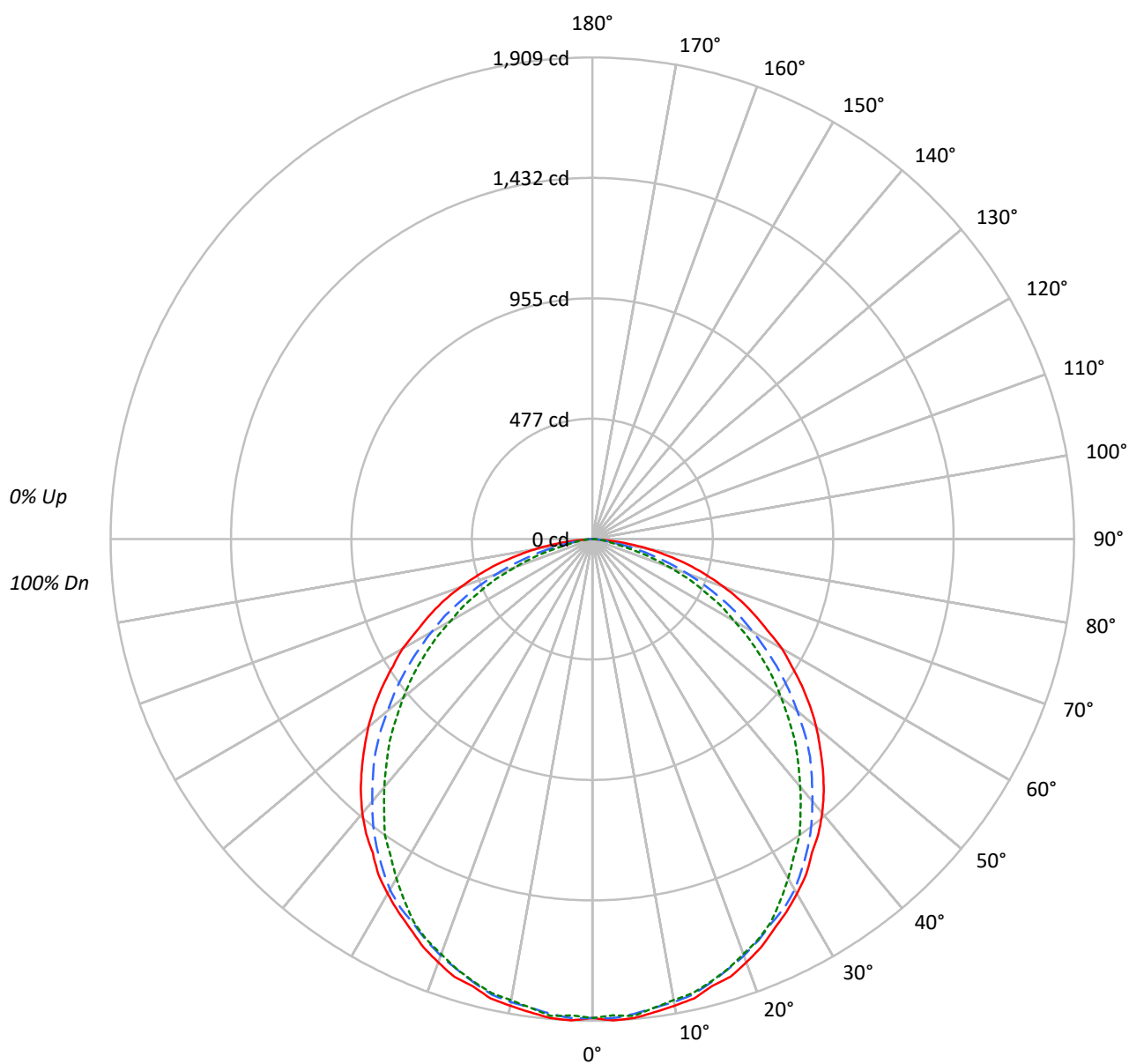
Lumens per Lamp: N/A
Luminaire Lumens: 5055.8 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	2554	2554	2554
5°	2573	2551	2562
10°	2565	2545	2535
15°	2554	2534	2529
20°	2556	2515	2506
25°	2531	2494	2485
30°	2520	2492	2411
35°	2492	2447	2353
40°	2490	2383	2252
45°	2459	2321	2162
50°	2425	2217	2044
55°	2379	2114	1920
60°	2336	1977	1743
65°	2257	1814	1558
70°	2184	1579	1272
75°	2051	1246	875
80°	1778	753	525
85°	1187	540	506

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2459 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.9	3.6
10°-20°	514.8	10.2
20°-30°	777.7	15.4
30°-40°	924.6	18.3
40°-50°	937.8	18.5
50°-60°	814.3	16.1
60°-70°	578.1	11.4
70°-80°	276.2	5.5
80°-90°	52.4	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°	1472.4	29.1
0°-40°	2397.1	47.4
0°-60°	4149.2	82.1
0°-90°	5055.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5055.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1898	1898	1898	1898	1898	
5°	1905	1898	1889	1894	1897	181
15°	1834	1838	1819	1817	1816	519
25°	1705	1702	1680	1687	1674	787
35°	1517	1515	1490	1439	1432	953
45°	1292	1281	1220	1155	1136	997
55°	1014	984	901	848	818	906
65°	709	656	570	509	490	702
75°	394	322	240	190	168	414
85°	77	41	35	34	33	97
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1898.1	1898.1	1898.1	1898.1	1898.1
2.5°	1909.4	1902.6	1900.3	1908.2	1889.0
5°	1904.9	1898.1	1889.0	1893.5	1896.9
7.5°	1891.3	1885.6	1873.2	1883.4	1873.2
10°	1877.7	1872.1	1863.0	1866.4	1855.1
12.5°	1864.2	1850.6	1848.3	1850.6	1842.7
15°	1833.6	1838.2	1818.9	1816.7	1815.5
17.5°	1818.9	1807.6	1787.3	1788.4	1786.2
20°	1785.0	1771.5	1756.8	1754.5	1750.0
22.5°	1750.0	1734.2	1720.6	1727.4	1717.2
25°	1704.8	1702.5	1679.9	1686.7	1674.2
27.5°	1665.2	1657.3	1647.1	1632.4	1614.3
30°	1622.2	1614.3	1604.1	1565.7	1552.1
32.5°	1577.0	1568.0	1547.6	1502.4	1487.7
35°	1517.1	1514.8	1490.0	1439.1	1432.3
37.5°	1471.9	1447.0	1426.7	1374.7	1355.4
40°	1417.6	1404.1	1356.6	1306.8	1282.0
42.5°	1357.7	1341.9	1287.6	1234.5	1207.3
45°	1292.1	1280.8	1219.8	1155.3	1136.1
47.5°	1224.3	1214.1	1141.8	1079.6	1054.7
50°	1158.7	1146.3	1059.3	999.3	976.7
52.5°	1087.5	1067.2	981.3	922.5	901.0
55°	1014.0	983.5	901.0	847.9	818.5
57.5°	936.0	907.8	816.2	760.8	737.1
60°	868.2	828.6	734.8	678.3	647.8
62.5°	781.2	747.2	657.9	591.2	576.5
65°	708.8	655.7	569.8	508.7	489.5
67.5°	635.3	573.2	486.1	423.9	413.8
70°	555.1	490.6	401.3	340.3	323.3
72.5°	473.7	410.4	323.3	258.9	248.7
75°	394.5	322.2	239.7	189.9	168.4
77.5°	308.6	243.1	168.4	116.4	102.9
80°	229.5	163.9	97.2	69.0	67.8
82.5°	150.4	95.0	52.0	53.1	50.9
85°	76.9	40.7	35.0	33.9	32.8
87.5°	14.7	15.8	17.0	17.0	17.0
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)