

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: P1050492

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

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050492
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-L840-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

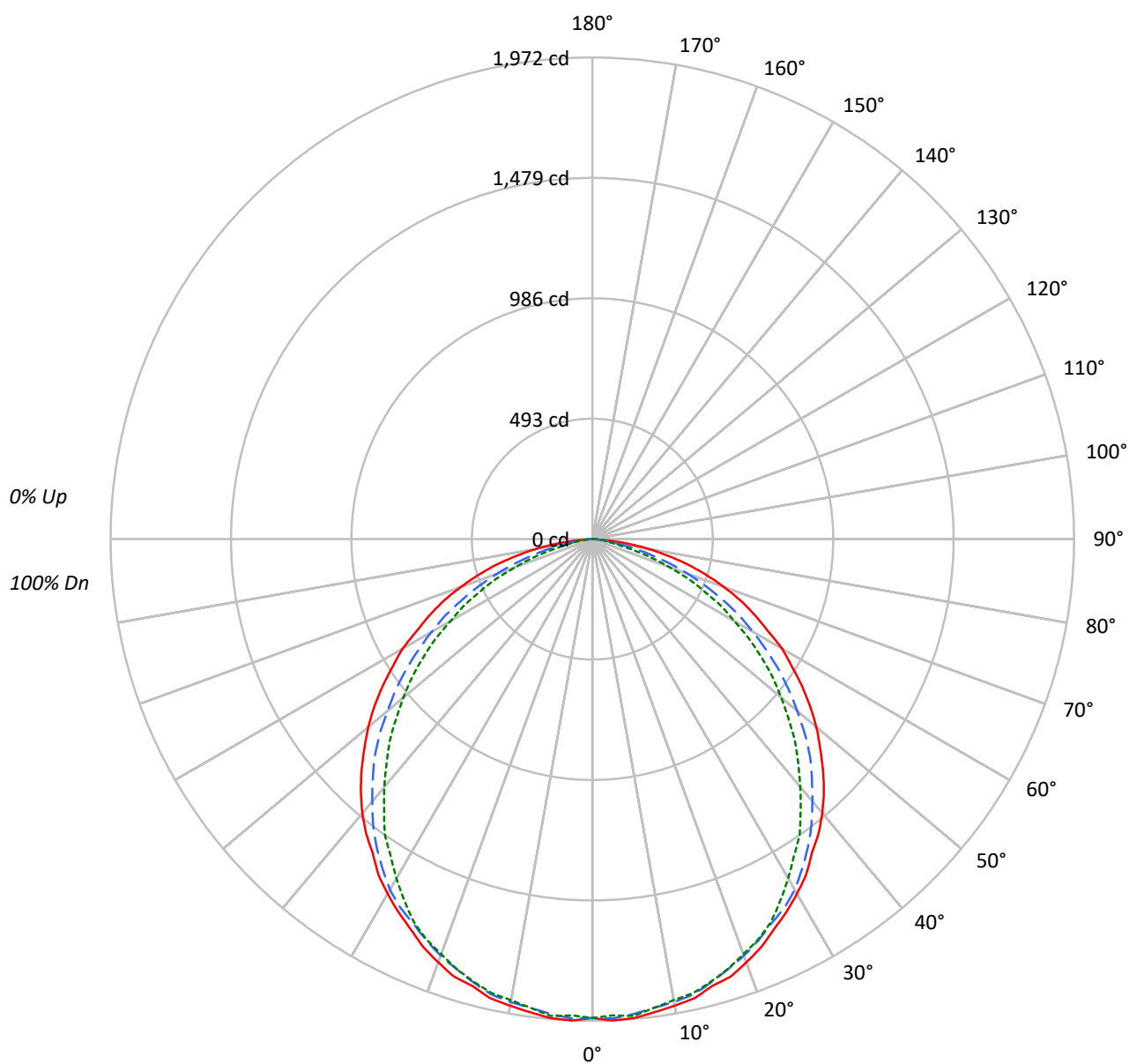
Lumens per Lamp: N/A
Luminaire Lumens: 5223.0 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2638	2638	2638
5°	2658	2636	2647
10°	2650	2629	2618
15°	2639	2617	2613
20°	2640	2599	2589
25°	2614	2576	2568
30°	2604	2575	2491
35°	2574	2528	2430
40°	2572	2461	2326
45°	2540	2398	2233
50°	2506	2291	2112
55°	2457	2183	1983
60°	2414	2043	1801
65°	2331	1874	1610
70°	2256	1631	1314
75°	2119	1287	905
80°	1837	778	543
85°	1226	559	523

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2540 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.9	3.6
10°-20°	531.9	10.2
20°-30°	803.4	15.4
30°-40°	955.2	18.3
40°-50°	968.8	18.5
50°-60°	841.2	16.1
60°-70°	597.2	11.4
70°-80°	285.4	5.5
80°-90°	54.1	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°	1521.1	29.1
0°-40°	2476.4	47.4
0°-60°	4286.4	82.1
0°-90°	5223.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5223.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1961	1961	1961	1961	1961	
5°	1968	1961	1952	1956	1960	187
15°	1894	1899	1879	1877	1876	537
25°	1761	1759	1735	1742	1730	813
35°	1567	1565	1539	1487	1480	985
45°	1335	1323	1260	1194	1174	1030
55°	1048	1016	931	876	846	936
65°	732	677	589	526	506	725
75°	408	333	248	196	174	427
85°	79	42	36	35	34	100
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1960.8	1960.8	1960.8	1960.8	1960.8
2.5°	1972.5	1965.5	1963.2	1971.4	1951.5
5°	1967.9	1960.8	1951.5	1956.2	1959.7
7.5°	1953.8	1948.0	1935.2	1945.7	1935.2
10°	1939.8	1934.0	1924.6	1928.1	1916.5
12.5°	1925.8	1911.8	1909.5	1911.8	1903.6
15°	1894.3	1898.9	1879.1	1876.8	1875.6
17.5°	1879.1	1867.4	1846.4	1847.6	1845.2
20°	1844.1	1830.0	1814.9	1812.5	1807.9
22.5°	1807.9	1791.5	1777.5	1784.5	1774.0
25°	1761.1	1758.8	1735.4	1742.5	1729.6
27.5°	1720.3	1712.1	1701.6	1686.4	1667.7
30°	1675.9	1667.7	1657.2	1617.5	1603.5
32.5°	1629.2	1619.8	1598.8	1552.1	1536.9
35°	1567.3	1564.9	1539.2	1486.7	1479.7
37.5°	1520.6	1494.9	1473.8	1420.1	1400.3
40°	1464.5	1450.5	1401.4	1350.1	1324.4
42.5°	1402.6	1386.3	1330.2	1275.3	1247.3
45°	1334.9	1323.2	1260.1	1193.6	1173.7
47.5°	1264.8	1254.3	1179.5	1115.3	1089.6
50°	1197.1	1184.2	1094.3	1032.4	1009.0
52.5°	1123.5	1102.5	1013.7	953.0	930.8
55°	1047.6	1016.0	930.8	875.9	845.5
57.5°	967.0	937.8	843.2	786.0	761.4
60°	896.9	856.0	759.1	700.7	669.2
62.5°	807.0	772.0	679.7	610.8	595.6
65°	732.3	677.4	588.6	525.5	505.7
67.5°	656.3	592.1	502.2	437.9	427.4
70°	573.4	506.9	414.6	351.5	334.0
72.5°	489.3	423.9	334.0	267.4	256.9
75°	407.6	332.8	247.6	196.2	174.0
77.5°	318.8	251.1	174.0	120.3	106.3
80°	237.1	169.3	100.4	71.2	70.1
82.5°	155.3	98.1	53.7	54.9	52.6
85°	79.4	42.0	36.2	35.0	33.9
87.5°	15.2	16.4	17.5	17.5	17.5
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)