

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: P1050965

Luminaire Tested: 24PTR-50-PR1-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050965
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737735)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-50-PR1-L850-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND RIPPLE LENS

Light Source:
Ballast/Driver: -

Summary

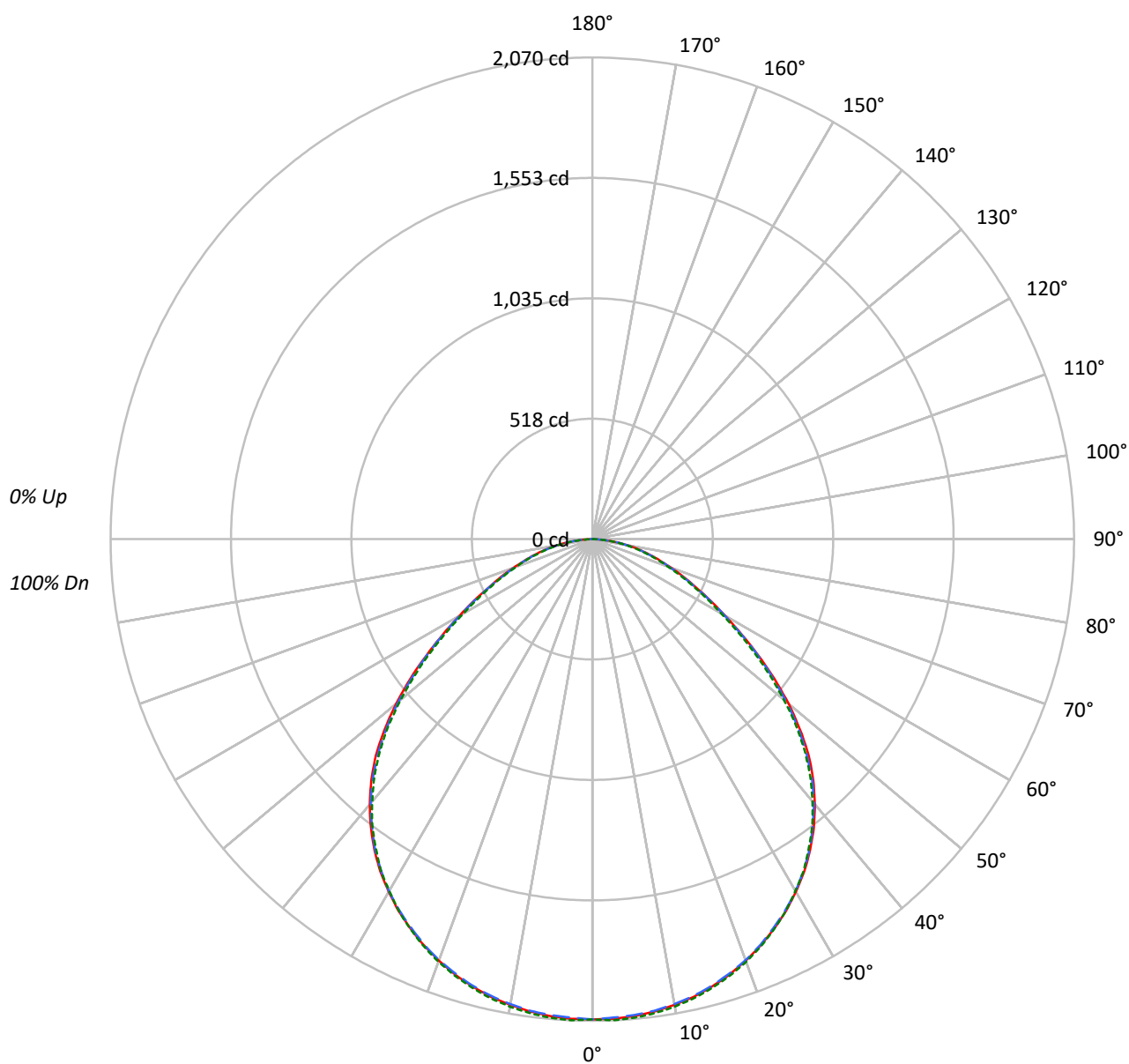
Lumens per Lamp: N/A
Luminaire Lumens: 5219.5 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1050965

CATALOG NUMBER: 24PTR-50-PR1-L850-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	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62		
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54		
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	47		
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41		
7	67	54	45	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37		
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33		
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30		
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2777	2777	2777
5°	2780	2773	2789
10°	2777	2772	2787
15°	2772	2768	2781
20°	2760	2757	2768
25°	2742	2736	2746
30°	2718	2715	2711
35°	2681	2674	2663
40°	2613	2602	2584
45°	2504	2476	2458
50°	2304	2278	2250
55°	2039	2030	1990
60°	1772	1766	1718
65°	1562	1552	1521
70°	1417	1397	1368
75°	1312	1281	1258
80°	1197	1181	1141
85°	946	937	900

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2504 cd/sqm

TEST NUMBER: P1050965

CATALOG NUMBER: 24PTR-50-PR1-L850-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.8	3.8
10°-20°	561.9	10.8
20°-30°	851.3	16.3
30°-40°	1016.2	19.5
40°-50°	999.4	19.1
50°-60°	772.4	14.8
60°-70°	487.1	9.3
70°-80°	263.5	5.0
80°-90°	72.0	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°	1609.0	30.8
0°-40°	2625.2	50.3
0°-60°	4397.1	84.2
0°-90°	5219.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5219.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2064	2064	2064	2064	2064	
5°	2058	2059	2053	2062	2065	196
15°	1990	1990	1987	1994	1996	562
25°	1847	1849	1843	1849	1849	851
35°	1632	1632	1628	1626	1622	1019
45°	1316	1311	1301	1291	1292	1008
55°	869	876	865	852	848	780
65°	490	491	488	479	478	494
75°	252	249	246	248	242	268
85°	61	62	61	61	58	73
90°	0	0	0	0	0	

TEST NUMBER: P1050965

CATALOG NUMBER: 24PTR-50-PR1-L850-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2063.9	2063.9	2063.9	2063.9	2063.9
2.5°	2063.1	2063.9	2058.0	2067.7	2069.8
5°	2058.0	2058.8	2053.4	2062.3	2064.7
7.5°	2047.5	2049.1	2044.0	2052.9	2055.0
10°	2032.7	2034.3	2029.2	2038.1	2040.2
12.5°	2014.4	2015.0	2010.7	2018.7	2020.9
15°	1990.0	1990.5	1987.0	1993.5	1996.4
17.5°	1961.8	1962.6	1957.5	1965.5	1966.9
20°	1927.9	1928.4	1925.5	1932.2	1933.0
22.5°	1890.0	1891.6	1887.0	1893.0	1893.8
25°	1847.3	1848.6	1842.7	1848.6	1849.4
27.5°	1802.1	1802.7	1797.5	1802.1	1801.3
30°	1749.4	1754.0	1747.3	1745.7	1745.1
32.5°	1694.9	1695.4	1689.0	1687.3	1690.3
35°	1632.0	1632.5	1628.2	1626.1	1621.5
37.5°	1563.2	1563.2	1554.8	1553.5	1552.7
40°	1487.7	1486.8	1481.7	1476.6	1471.3
42.5°	1405.4	1407.0	1396.5	1387.7	1386.3
45°	1315.9	1310.8	1301.1	1290.9	1291.7
47.5°	1210.3	1211.6	1198.5	1190.1	1188.0
50°	1100.6	1100.6	1088.3	1079.4	1074.8
52.5°	986.1	986.9	975.1	963.3	960.9
55°	869.2	876.5	865.4	851.5	848.5
57.5°	759.8	765.7	755.2	740.5	739.7
60°	658.5	659.0	656.1	642.1	638.3
62.5°	571.9	568.2	566.6	559.3	554.7
65°	490.5	491.3	487.6	479.2	477.9
67.5°	424.7	423.9	417.1	412.0	409.1
70°	360.2	358.0	355.0	350.7	347.8
72.5°	302.6	302.6	300.2	298.9	293.8
75°	252.4	249.4	246.5	247.8	241.9
77.5°	204.3	201.3	198.9	195.9	194.6
80°	154.5	151.6	152.4	147.8	147.3
82.5°	107.2	107.2	105.9	102.1	102.9
85°	61.3	62.1	60.7	61.3	58.3
87.5°	22.3	22.8	24.5	22.8	22.8
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)