

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: P1050580

Luminaire Tested: 24PTR-50-PB1-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050580
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737703)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-50-PB1-L850-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

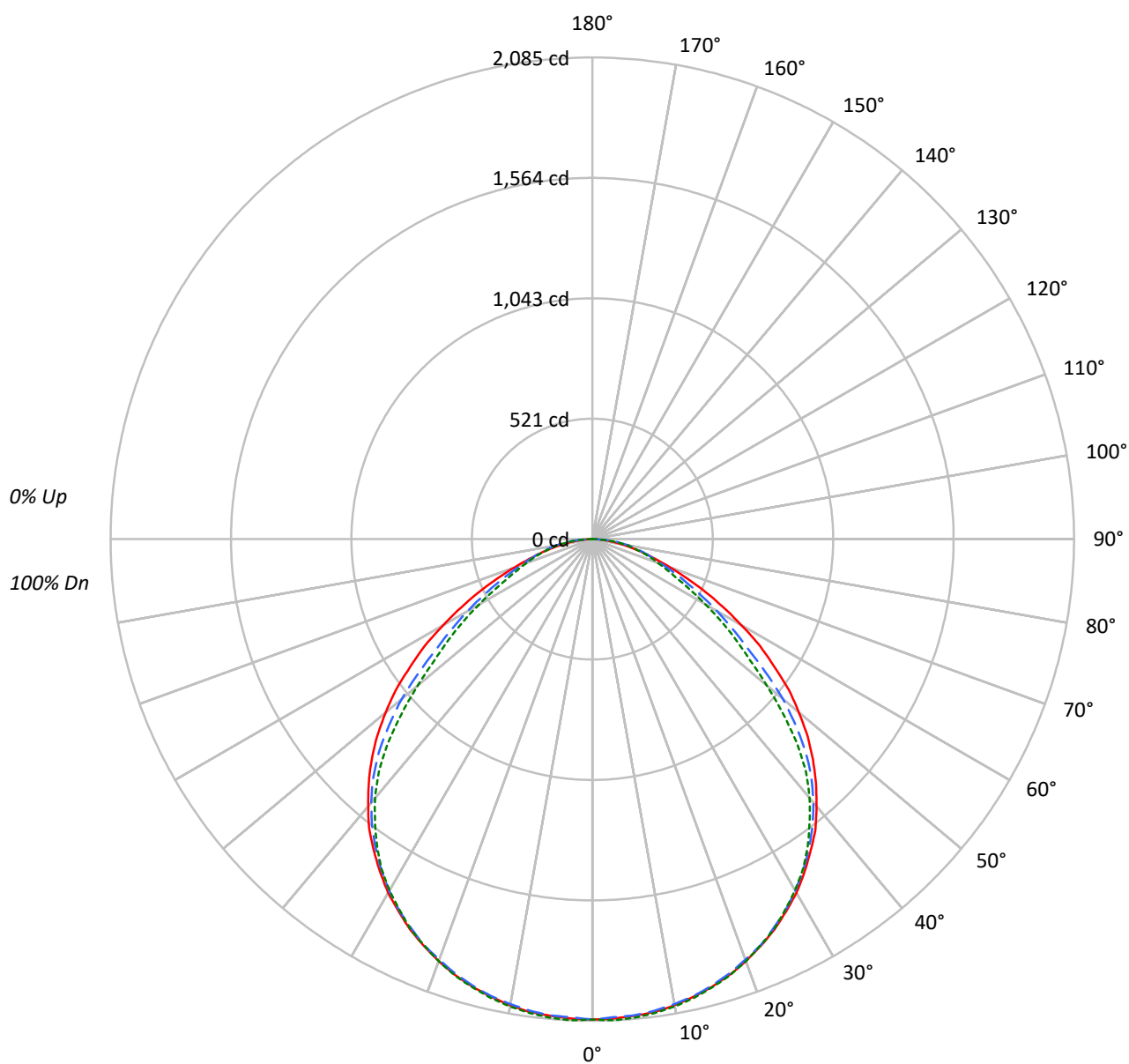
Lumens per Lamp: N/A
Luminaire Lumens: 5185.6 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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: P1050580

CATALOG NUMBER: 24PTR-50-PB1-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	93	90	91	89	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64	62		
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54		
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47		
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42		
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37		
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	33		
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30		
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2798	2798	2798
5°	2798	2795	2809
10°	2799	2792	2806
15°	2794	2786	2797
20°	2783	2773	2783
25°	2768	2757	2764
30°	2746	2730	2726
35°	2706	2685	2668
40°	2651	2615	2570
45°	2570	2487	2385
50°	2442	2254	2061
55°	2250	1914	1776
60°	2003	1673	1521
65°	1719	1450	1295
70°	1419	1278	1187
75°	1196	1223	1157
80°	1011	1248	1190
85°	792	1264	1107

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2570 cd/sqm

TEST NUMBER: P1050580

CATALOG NUMBER: 24PTR-50-PB1-L850-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.2	3.8
10°-20°	565.8	10.9
20°-30°	857.1	16.5
30°-40°	1021.3	19.7
40°-50°	998.7	19.3
50°-60°	755.4	14.6
60°-70°	464.1	8.9
70°-80°	247.2	4.8
80°-90°	78.9	1.5
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°	1620.1	31.2
0°-40°	2641.3	50.9
0°-60°	4395.4	84.8
0°-90°	5185.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5185.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2080	2080	2080	2080	2080	
5°	2072	2074	2069	2077	2080	197
15°	2006	2008	2000	2008	2008	566
25°	1865	1862	1857	1860	1862	859
35°	1647	1645	1635	1627	1624	1030
45°	1350	1343	1307	1264	1253	1039
55°	959	911	816	770	757	859
65°	540	496	456	420	407	537
75°	230	233	235	228	223	247
85°	51	67	82	77	72	62
90°	0	0	0	0	0	

TEST NUMBER: P1050580

CATALOG NUMBER: 24PTR-50-PB1-L850-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2079.6	2079.6	2079.6	2079.6	2079.6
2.5°	2077.2	2079.6	2071.8	2082.3	2084.7
5°	2071.8	2074.5	2069.4	2077.2	2079.6
7.5°	2064.3	2064.3	2059.2	2066.7	2069.4
10°	2049.0	2049.0	2043.9	2051.4	2054.1
12.5°	2028.6	2028.6	2025.9	2031.0	2033.7
15°	2005.5	2007.9	2000.4	2007.9	2007.9
17.5°	1977.3	1974.9	1972.2	1977.3	1980.0
20°	1944.0	1944.0	1936.5	1941.6	1944.0
22.5°	1905.6	1905.6	1903.2	1905.6	1903.2
25°	1864.8	1862.1	1857.0	1859.7	1862.1
27.5°	1816.2	1816.2	1811.1	1811.1	1808.4
30°	1767.6	1764.9	1757.4	1752.3	1754.7
32.5°	1708.8	1706.1	1698.5	1693.4	1695.9
35°	1647.3	1644.8	1634.6	1626.8	1624.4
37.5°	1586.0	1578.2	1565.4	1555.1	1544.9
40°	1509.2	1501.4	1488.8	1465.7	1463.0
42.5°	1432.4	1424.9	1404.2	1376.3	1368.5
45°	1350.5	1343.0	1307.0	1263.5	1253.3
47.5°	1263.5	1250.9	1194.5	1140.8	1120.4
50°	1166.6	1143.5	1076.9	1007.9	984.8
52.5°	1071.8	1030.9	943.9	882.4	859.6
55°	959.2	910.6	816.1	769.9	757.0
57.5°	859.6	793.0	716.2	670.3	660.1
60°	744.4	682.9	621.7	580.6	565.3
62.5°	639.4	585.7	534.7	498.7	481.0
65°	539.8	496.3	455.5	419.5	406.8
67.5°	442.6	419.5	386.2	358.2	350.5
70°	360.7	347.8	324.9	312.0	301.8
72.5°	286.5	291.6	276.3	271.2	263.4
75°	230.1	232.8	235.2	227.7	222.6
77.5°	174.0	186.6	196.8	191.7	186.6
80°	130.5	143.1	161.1	153.6	153.6
82.5°	89.4	105.0	120.3	115.2	112.5
85°	51.3	66.6	81.9	76.8	71.7
87.5°	20.4	33.3	35.7	35.7	33.3
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)