

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: P1192900

Luminaire Tested: 24PT-50-PB1-L850

Issue Date: 10/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P1192900
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2202-549-7)
Test Lab: INNOVATION CENTER
Issue Date: 10/2/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PT-50-PB1-L850
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND BEVEL LENS
Light Source: -
Ballast/Driver: -

Summary

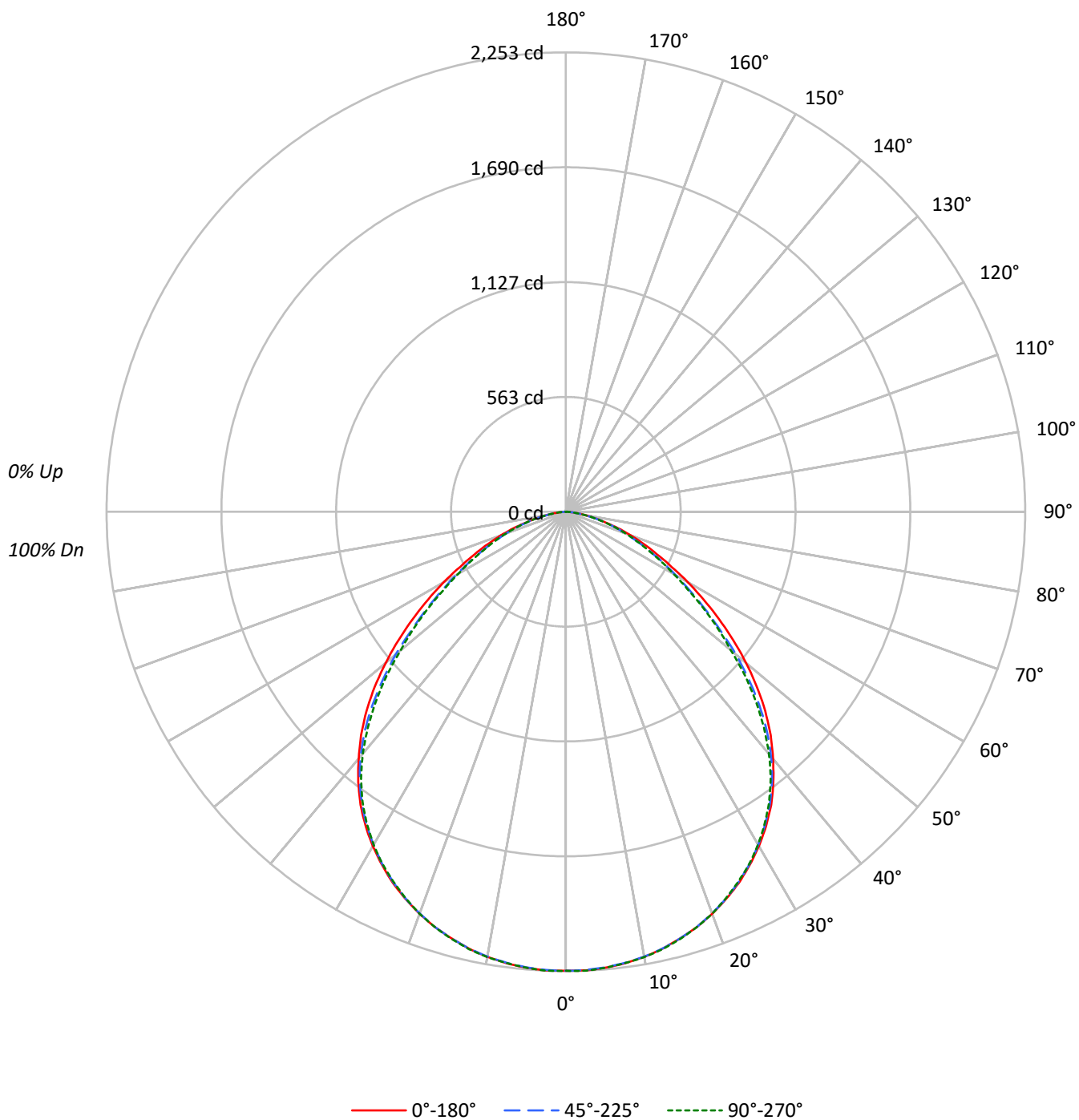
Lumens per Lamp: N/A
Luminaire Lumens: 5346.0 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.32
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	99	108	104	100	97	100	97	94		96	93	91		92
2	101	94	88	83	99	92	86	82	88	84	80		85	81	78		82
3	93	83	76	70	91	82	75	69	79	73	68		76	71	67		74
4	86	75	66	60	83	73	66	60	71	64	59		69	63	58		66
5	79	67	59	53	77	66	58	52	64	57	52		62	56	51		60
6	73	61	52	46	71	60	52	46	58	51	46		56	50	45		55
7	68	55	47	41	66	55	47	41	53	46	41		52	45	40		50
8	64	51	43	37	62	50	42	37	49	42	37		47	41	36		46
9	59	47	39	33	58	46	38	33	45	38	33		44	38	33		43
10	56	43	35	30	55	43	35	30	42	35	30		41	34	30		40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3220	3220	3220
5°	3222	3219	3222
10°	3219	3217	3220
15°	3207	3207	3211
20°	3193	3190	3193
25°	3169	3162	3158
30°	3128	3116	3113
35°	3065	3047	3034
40°	2952	2923	2894
45°	2798	2715	2669
50°	2567	2423	2354
55°	2284	2080	2050
60°	1978	1778	1747
65°	1668	1524	1506
70°	1416	1305	1313
75°	1112	1063	1073
80°	810	796	803
85°	494	523	523

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2798 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.2	4.0
10°-20°	611.5	11.4
20°-30°	923.0	17.3
30°-40°	1088.4	20.4
40°-50°	1034.2	19.3
50°-60°	763.1	14.3
60°-70°	460.6	8.6
70°-80°	210.8	3.9
80°-90°	41.1	0.8
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°	1747.7	32.7
0°-40°	2836.2	53.1
0°-60°	4633.4	86.7
0°-90°	5346.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5346.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2251	2251	2251	2251	2251	
5°	2244	2245	2242	2241	2244	213
15°	2166	2167	2166	2165	2169	612
25°	2008	2008	2004	2000	2001	924
35°	1756	1753	1745	1738	1738	1094
45°	1383	1374	1342	1324	1319	1062
55°	916	879	834	815	822	820
65°	493	477	450	442	445	496
75°	201	198	192	190	194	219
85°	30	31	32	31	32	41
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2251.3	2251.3	2251.3	2251.3	2251.3
2.5°	2251.3	2251.3	2249.6	2247.8	2253.1
5°	2244.2	2245.1	2242.5	2240.7	2244.2
7.5°	2233.6	2233.6	2230.9	2229.2	2232.7
10°	2216.7	2216.7	2215.0	2214.1	2217.6
12.5°	2194.6	2195.5	2193.7	2192.8	2197.2
15°	2166.2	2167.1	2166.2	2165.3	2168.9
17.5°	2136.1	2136.9	2135.2	2132.5	2136.1
20°	2097.9	2099.7	2096.2	2094.4	2097.9
22.5°	2055.4	2057.1	2053.6	2051.8	2051.8
25°	2008.4	2007.5	2003.9	2000.4	2001.3
27.5°	1953.4	1954.3	1949.0	1945.4	1948.1
30°	1894.0	1894.9	1886.9	1884.2	1885.1
32.5°	1827.5	1826.6	1819.5	1815.1	1815.1
35°	1755.7	1753.0	1745.0	1737.9	1737.9
37.5°	1672.3	1670.5	1661.7	1652.8	1650.1
40°	1581.0	1579.2	1565.9	1554.4	1550.0
42.5°	1487.0	1481.7	1460.4	1442.7	1438.2
45°	1383.3	1373.5	1342.5	1323.8	1319.4
47.5°	1271.5	1259.1	1216.6	1195.3	1193.5
50°	1153.6	1131.4	1088.9	1061.4	1057.8
52.5°	1034.8	1002.9	954.1	933.7	939.0
55°	916.0	878.7	834.4	814.9	822.0
57.5°	800.7	761.7	723.5	704.0	708.5
60°	691.6	657.9	621.6	605.6	610.9
62.5°	584.3	563.1	532.0	517.8	524.9
65°	493.0	477.0	450.4	441.6	445.1
67.5°	413.2	400.8	377.7	370.6	376.0
70°	338.7	329.9	312.1	309.5	313.9
72.5°	267.8	262.5	252.7	248.3	250.9
75°	201.3	197.7	192.4	189.8	194.2
77.5°	145.4	142.8	141.0	141.0	141.9
80°	98.4	97.5	96.7	95.8	97.5
82.5°	60.3	60.3	60.3	60.3	61.2
85°	30.1	31.0	31.9	31.0	31.9
87.5°	9.8	10.6	11.5	11.5	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)