

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: P1192899

Luminaire Tested: 24PT-50-PB1-L840

Issue Date: 10/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P1192899
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-L840
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND BEVEL LENS
Light Source: -
Ballast/Driver: -

Summary

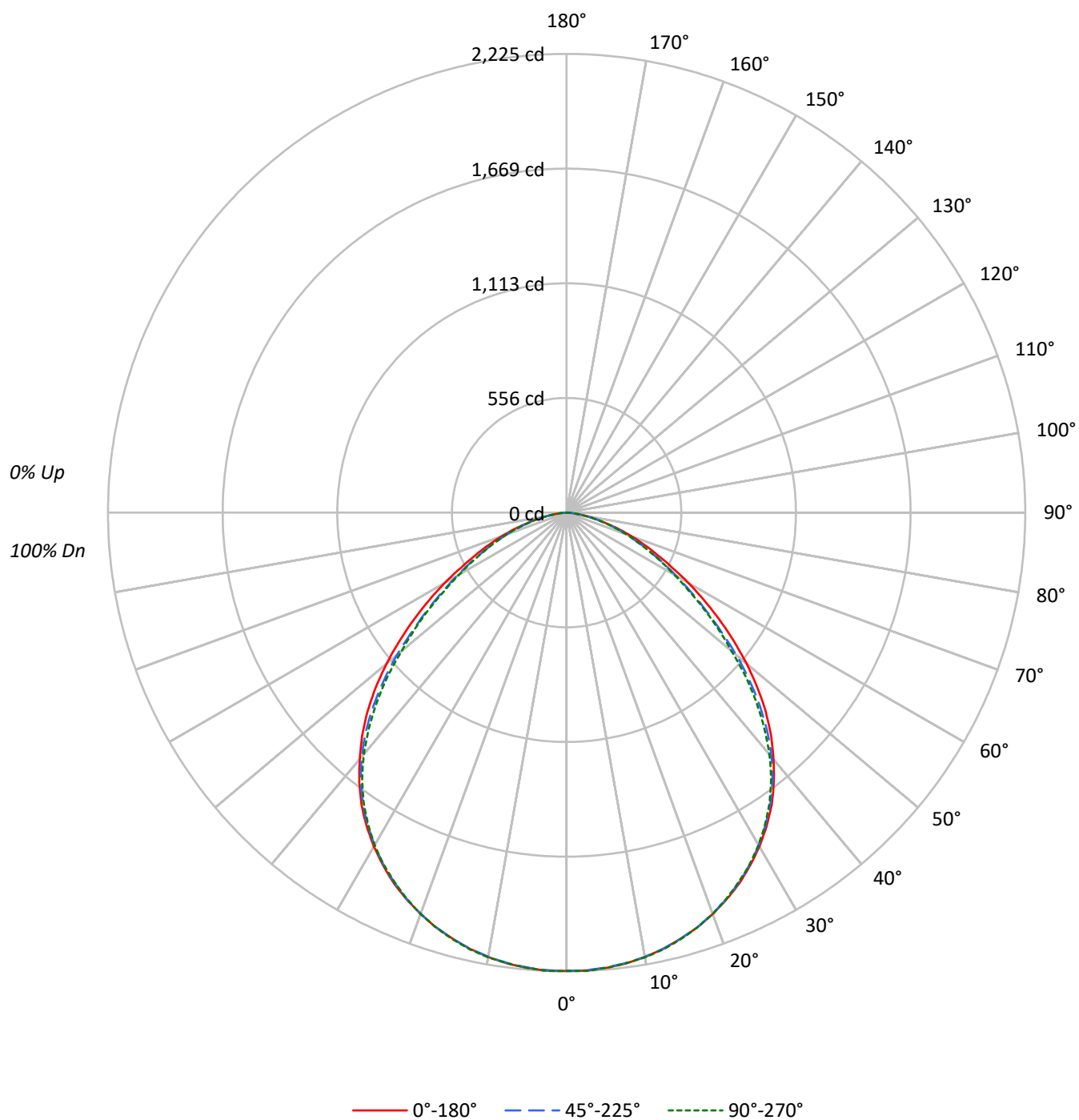
Lumens per Lamp: N/A
Luminaire Lumens: 5279.0 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.32
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')
CIE Type: Direct

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°	3179	3179	3179
5°	3181	3179	3181
10°	3179	3176	3180
15°	3167	3167	3171
20°	3153	3150	3153
25°	3129	3123	3118
30°	3089	3077	3074
35°	3027	3009	2996
40°	2915	2887	2857
45°	2763	2681	2635
50°	2534	2392	2324
55°	2255	2054	2024
60°	1954	1756	1726
65°	1647	1505	1487
70°	1399	1289	1296
75°	1099	1050	1060
80°	801	786	793
85°	489	517	517

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2763 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.6	4.0
10°-20°	603.8	11.4
20°-30°	911.5	17.3
30°-40°	1074.8	20.4
40°-50°	1021.2	19.3
50°-60°	753.5	14.3
60°-70°	454.8	8.6
70°-80°	208.2	3.9
80°-90°	40.6	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°	1725.8	32.7
0°-40°	2800.6	53.1
0°-60°	4575.4	86.7
0°-90°	5279.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5279.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2223	2223	2223	2223	2223	
5°	2216	2217	2214	2213	2216	211
15°	2139	2140	2139	2138	2142	604
25°	1983	1982	1979	1975	1976	913
35°	1734	1731	1723	1716	1716	1081
45°	1366	1356	1326	1307	1303	1049
55°	904	868	824	805	812	810
65°	487	471	445	436	440	489
75°	199	195	190	187	192	217
85°	30	31	32	31	32	40
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2223.1	2223.1	2223.1	2223.1	2223.1
2.5°	2223.1	2223.1	2221.4	2219.6	2224.9
5°	2216.1	2217.0	2214.4	2212.6	2216.1
7.5°	2205.6	2205.6	2203.0	2201.2	2204.7
10°	2189.0	2189.0	2187.2	2186.3	2189.8
12.5°	2167.1	2168.0	2166.2	2165.3	2169.7
15°	2139.1	2139.9	2139.1	2138.2	2141.7
17.5°	2109.3	2110.2	2108.4	2105.8	2109.3
20°	2071.6	2073.4	2069.9	2068.1	2071.6
22.5°	2029.6	2031.4	2027.9	2026.1	2026.1
25°	1983.2	1982.3	1978.8	1975.3	1976.2
27.5°	1928.9	1929.8	1924.5	1921.0	1923.7
30°	1870.3	1871.1	1863.2	1860.6	1861.5
32.5°	1804.6	1803.7	1796.7	1792.3	1792.3
35°	1733.7	1731.0	1723.2	1716.2	1716.2
37.5°	1651.4	1649.6	1640.8	1632.1	1629.5
40°	1561.2	1559.4	1546.3	1534.9	1530.5
42.5°	1468.4	1463.1	1442.1	1424.6	1420.2
45°	1365.9	1356.3	1325.6	1307.3	1302.9
47.5°	1255.6	1243.3	1201.3	1180.3	1178.5
50°	1139.1	1117.2	1075.2	1048.1	1044.6
52.5°	1021.8	990.3	942.1	922.0	927.2
55°	904.5	867.7	823.9	804.7	811.7
57.5°	790.7	752.1	714.5	695.2	699.6
60°	683.0	649.7	613.8	598.0	603.3
62.5°	577.0	556.0	525.4	511.3	518.3
65°	486.8	471.1	444.8	436.0	439.5
67.5°	408.0	395.8	373.0	366.0	371.2
70°	334.5	325.7	308.2	305.6	310.0
72.5°	264.4	259.2	249.5	245.2	247.8
75°	198.8	195.3	190.0	187.4	191.8
77.5°	143.6	141.0	139.2	139.2	140.1
80°	97.2	96.3	95.4	94.6	96.3
82.5°	59.5	59.5	59.5	59.5	60.4
85°	29.8	30.6	31.5	30.6	31.5
87.5°	9.6	10.5	11.4	11.4	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)