

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: P1192889

Luminaire Tested: 24PT-45-PB1-L830

Issue Date: 10/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P1192889
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-45-PB1-L830
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND BEVEL LENS
Light Source: -
Ballast/Driver: -

Summary

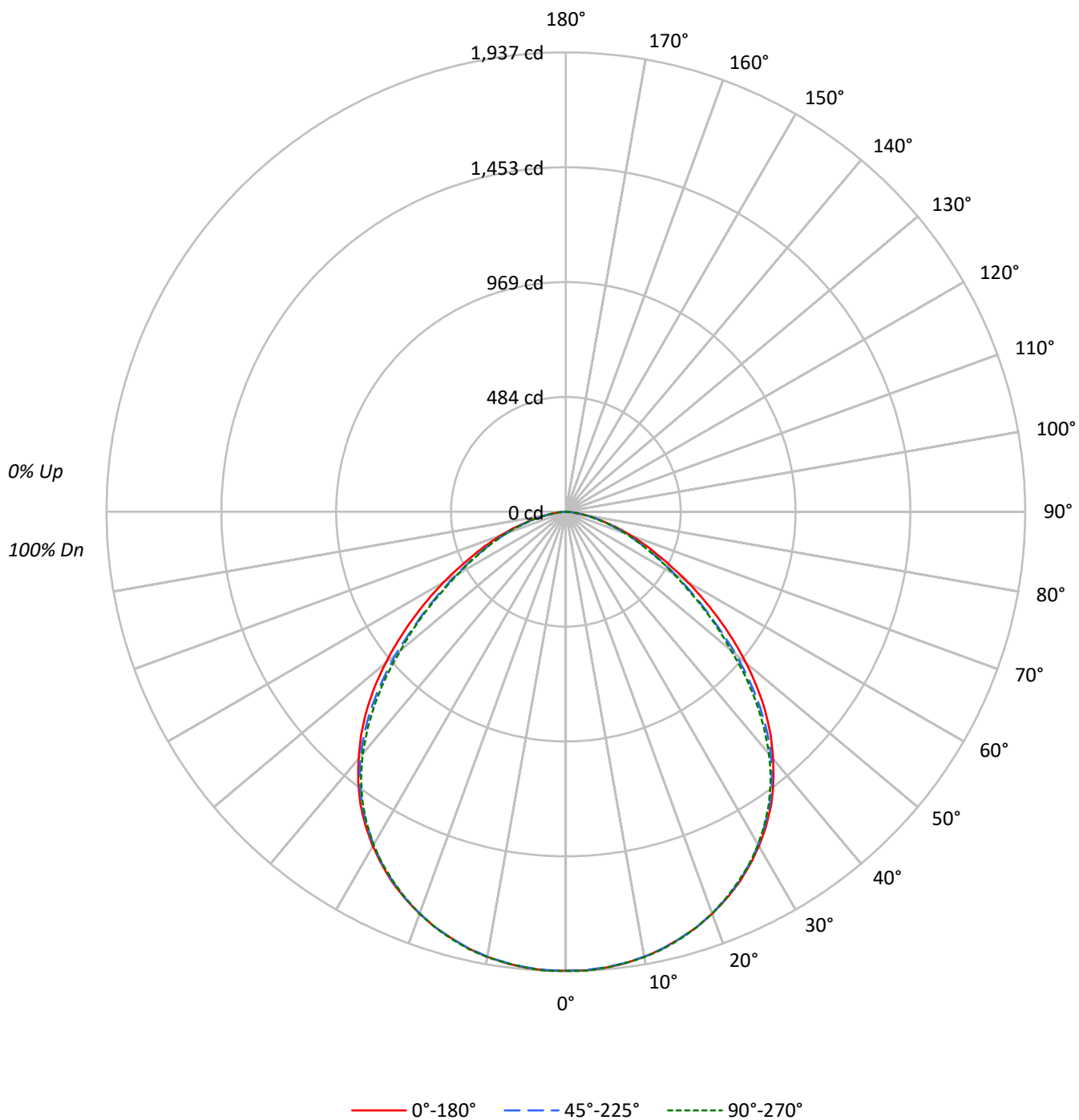
Lumens per Lamp: N/A
Luminaire Lumens: 4596.0 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.32
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 37
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	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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	89	87
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	76	76	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	66	66	64
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	58	58	58	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	51	51	49
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45	45	45	43
7	68	55	47	41	66	55	47	41	53	46	41	52	45	40	50	45	40	40	40	38
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	36	36	34
9	59	47	39	33	58	46	38	33	45	38	33	44	38	33	43	37	33	33	33	31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	30	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2768	2768	2768
5°	2770	2768	2770
10°	2768	2765	2769
15°	2757	2757	2761
20°	2745	2743	2745
25°	2725	2719	2715
30°	2689	2679	2676
35°	2635	2619	2609
40°	2538	2513	2488
45°	2405	2334	2294
50°	2207	2083	2023
55°	1964	1789	1762
60°	1701	1529	1502
65°	1434	1310	1295
70°	1218	1122	1129
75°	956	914	922
80°	697	684	691
85°	425	450	450

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2405 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.3	4.0
10°-20°	525.7	11.4
20°-30°	793.5	17.3
30°-40°	935.7	20.4
40°-50°	889.1	19.3
50°-60°	656.0	14.3
60°-70°	396.0	8.6
70°-80°	181.2	3.9
80°-90°	35.4	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°	1502.6	32.7
0°-40°	2438.3	53.1
0°-60°	3983.4	86.7
0°-90°	4596.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4596.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1936	1936	1936	1936	1936	
5°	1929	1930	1928	1926	1929	183
15°	1862	1863	1862	1862	1865	526
25°	1727	1726	1723	1720	1720	795
35°	1509	1507	1500	1494	1494	941
45°	1189	1181	1154	1138	1134	913
55°	788	755	717	701	707	705
65°	424	410	387	380	383	426
75°	173	170	165	163	167	189
85°	26	27	27	27	27	35
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1935.5	1935.5	1935.5	1935.5	1935.5
2.5°	1935.5	1935.5	1934.0	1932.4	1937.0
5°	1929.4	1930.2	1927.9	1926.3	1929.4
7.5°	1920.2	1920.2	1918.0	1916.4	1919.5
10°	1905.8	1905.8	1904.2	1903.5	1906.5
12.5°	1886.7	1887.5	1885.9	1885.2	1889.0
15°	1862.3	1863.1	1862.3	1861.5	1864.6
17.5°	1836.4	1837.1	1835.6	1833.3	1836.4
20°	1803.6	1805.1	1802.1	1800.6	1803.6
22.5°	1767.0	1768.5	1765.5	1764.0	1764.0
25°	1726.6	1725.9	1722.8	1719.8	1720.5
27.5°	1679.4	1680.1	1675.5	1672.5	1674.8
30°	1628.3	1629.0	1622.2	1619.9	1620.7
32.5°	1571.1	1570.3	1564.2	1560.4	1560.4
35°	1509.4	1507.1	1500.2	1494.1	1494.1
37.5°	1437.7	1436.2	1428.6	1420.9	1418.6
40°	1359.2	1357.7	1346.2	1336.3	1332.5
42.5°	1278.4	1273.8	1255.5	1240.3	1236.5
45°	1189.2	1180.8	1154.1	1138.1	1134.3
47.5°	1093.1	1082.5	1045.9	1027.6	1026.1
50°	991.8	972.7	936.1	912.5	909.4
52.5°	889.6	862.2	820.2	802.7	807.3
55°	787.5	755.4	717.3	700.6	706.7
57.5°	688.4	654.8	622.0	605.3	609.1
60°	594.6	565.6	534.4	520.7	525.2
62.5°	502.4	484.1	457.4	445.2	451.3
65°	423.8	410.1	387.2	379.6	382.7
67.5°	355.2	344.6	324.7	318.6	323.2
70°	291.2	283.6	268.3	266.0	269.9
72.5°	230.2	225.6	217.3	213.4	215.7
75°	173.0	170.0	165.4	163.1	166.9
77.5°	125.0	122.7	121.2	121.2	122.0
80°	84.6	83.9	83.1	82.3	83.9
82.5°	51.8	51.8	51.8	51.8	52.6
85°	25.9	26.7	27.4	26.7	27.4
87.5°	8.4	9.1	9.9	9.9	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)