

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: P1192890

Luminaire Tested: 24PT-45-PB1-L835

Issue Date: 10/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P1192890
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-L835
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND BEVEL LENS
Light Source: -
Ballast/Driver: -

Summary

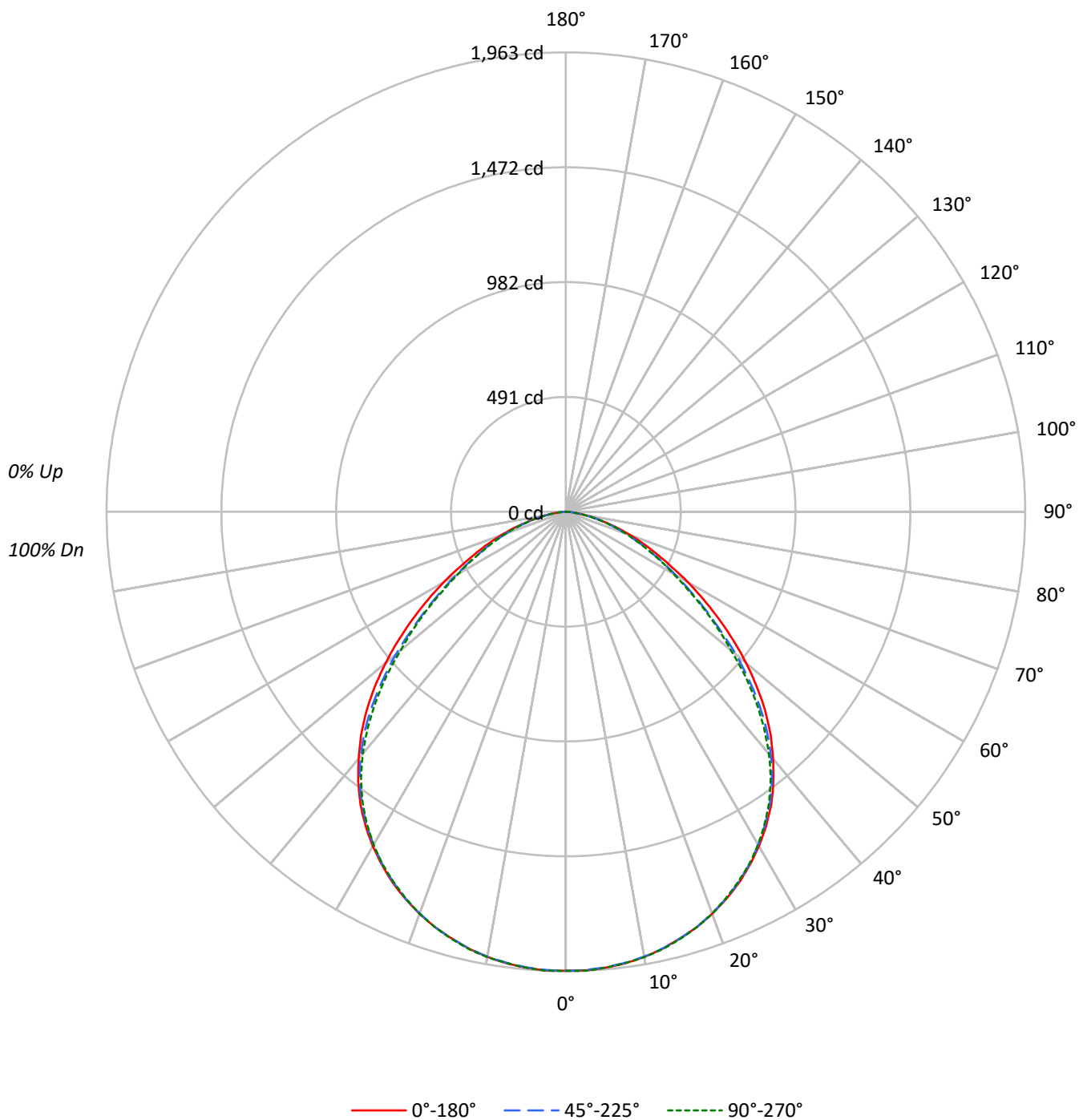
Lumens per Lamp: N/A
Luminaire Lumens: 4658.0 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.32
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1192890

CATALOG NUMBER: 24PT-45-PB1-L835

Luminous Intensity Polar Plot



TEST NUMBER: P1192890

CATALOG NUMBER: 24PT-45-PB1-L835

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°	2805	2805	2805
5°	2807	2805	2807
10°	2805	2803	2806
15°	2794	2794	2798
20°	2782	2780	2782
25°	2761	2755	2752
30°	2725	2715	2712
35°	2671	2654	2644
40°	2572	2547	2521
45°	2438	2366	2325
50°	2236	2111	2051
55°	1990	1813	1786
60°	1724	1549	1523
65°	1454	1328	1312
70°	1234	1137	1144
75°	969	927	935
80°	707	693	700
85°	432	456	456

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2438 cd/sqm

TEST NUMBER: P1192890

CATALOG NUMBER: 24PT-45-PB1-L835

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.8	4.0
10°-20°	532.8	11.4
20°-30°	804.2	17.3
30°-40°	948.3	20.4
40°-50°	901.1	19.3
50°-60°	664.9	14.3
60°-70°	401.3	8.6
70°-80°	183.7	3.9
80°-90°	35.8	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°	1522.8	32.7
0°-40°	2471.2	53.1
0°-60°	4037.1	86.7
0°-90°	4658.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4658.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1962	1962	1962	1962	1962	
5°	1955	1956	1954	1952	1955	186
15°	1887	1888	1887	1887	1890	533
25°	1750	1749	1746	1743	1744	806
35°	1530	1527	1520	1514	1514	954
45°	1205	1197	1170	1154	1150	925
55°	798	766	727	710	716	715
65°	430	416	392	385	388	432
75°	175	172	168	165	169	191
85°	26	27	28	27	28	35
90°	0	0	0	0	0	

TEST NUMBER: P1192890

CATALOG NUMBER: 24PT-45-PB1-L835

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1961.6	1961.6	1961.6	1961.6	1961.6
2.5°	1961.6	1961.6	1960.1	1958.5	1963.1
5°	1955.4	1956.2	1953.9	1952.3	1955.4
7.5°	1946.1	1946.1	1943.8	1942.3	1945.4
10°	1931.5	1931.5	1929.9	1929.1	1932.2
12.5°	1912.2	1912.9	1911.4	1910.6	1914.5
15°	1887.4	1888.2	1887.4	1886.7	1889.7
17.5°	1861.2	1861.9	1860.4	1858.1	1861.2
20°	1827.9	1829.5	1826.4	1824.8	1827.9
22.5°	1790.9	1792.4	1789.3	1787.8	1787.8
25°	1749.9	1749.1	1746.0	1743.0	1743.7
27.5°	1702.0	1702.8	1698.1	1695.1	1697.4
30°	1650.2	1651.0	1644.1	1641.7	1642.5
32.5°	1592.3	1591.5	1585.3	1581.5	1581.5
35°	1529.7	1527.4	1520.4	1514.3	1514.3
37.5°	1457.1	1455.6	1447.8	1440.1	1437.8
40°	1377.5	1376.0	1364.4	1354.3	1350.5
42.5°	1295.6	1291.0	1272.4	1257.0	1253.1
45°	1205.2	1196.7	1169.7	1153.5	1149.6
47.5°	1107.9	1097.1	1060.0	1041.4	1039.9
50°	1005.1	985.8	948.7	924.8	921.7
52.5°	901.6	873.8	831.3	813.5	818.2
55°	798.1	765.6	727.0	710.0	716.2
57.5°	697.6	663.7	630.4	613.4	617.3
60°	602.6	573.3	541.6	527.7	532.3
62.5°	509.1	490.6	463.6	451.2	457.4
65°	429.6	415.7	392.5	384.7	387.8
67.5°	360.0	349.2	329.1	322.9	327.6
70°	295.1	287.4	272.0	269.6	273.5
72.5°	233.3	228.7	220.2	216.3	218.6
75°	175.4	172.3	167.7	165.3	169.2
77.5°	126.7	124.4	122.8	122.8	123.6
80°	85.8	85.0	84.2	83.4	85.0
82.5°	52.5	52.5	52.5	52.5	53.3
85°	26.3	27.0	27.8	27.0	27.8
87.5°	8.5	9.3	10.0	10.0	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)