

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: P1192892

Luminaire Tested: 24PT-45-PB1-L850

Issue Date: 10/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P1192892
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-L850
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND BEVEL LENS
Light Source: -
Ballast/Driver: -

Summary

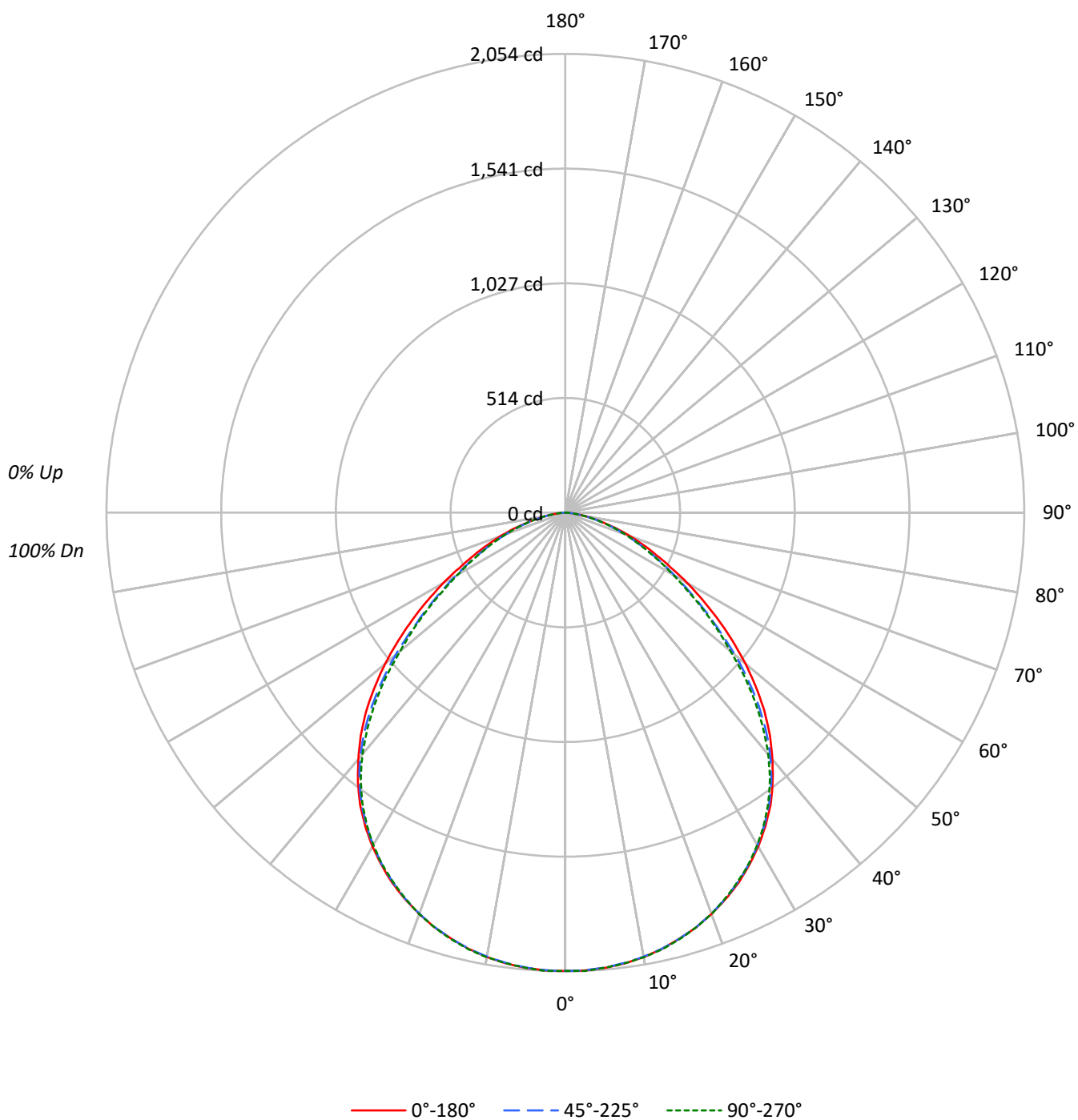
Lumens per Lamp: N/A
Luminaire Lumens: 4873.0 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.32
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')
CIE Type: Direct

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
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°	2935	2935	2935
5°	2937	2935	2937
10°	2934	2932	2936
15°	2923	2923	2927
20°	2910	2908	2910
25°	2889	2882	2879
30°	2851	2840	2838
35°	2794	2777	2766
40°	2690	2665	2638
45°	2550	2475	2433
50°	2340	2208	2145
55°	2082	1896	1868
60°	1803	1621	1593
65°	1521	1389	1373
70°	1291	1190	1196
75°	1014	969	978
80°	739	726	732
85°	451	478	478

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2550 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.4	4.0
10°-20°	557.4	11.4
20°-30°	841.4	17.3
30°-40°	992.1	20.4
40°-50°	942.7	19.3
50°-60°	695.6	14.3
60°-70°	419.8	8.6
70°-80°	192.2	3.9
80°-90°	37.5	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°	1593.1	32.7
0°-40°	2585.2	53.1
0°-60°	4223.5	86.7
0°-90°	4873.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4873.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2052	2052	2052	2052	2052	
5°	2046	2046	2044	2042	2046	194
15°	1974	1975	1974	1974	1977	557
25°	1831	1830	1827	1823	1824	843
35°	1600	1598	1591	1584	1584	998
45°	1261	1252	1224	1207	1203	968
55°	835	801	761	743	749	747
65°	449	435	411	402	406	452
75°	184	180	175	173	177	200
85°	28	28	29	28	29	37
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2052.1	2052.1	2052.1	2052.1	2052.1
2.5°	2052.1	2052.1	2050.5	2048.9	2053.8
5°	2045.7	2046.5	2044.1	2042.4	2045.7
7.5°	2036.0	2036.0	2033.5	2031.9	2035.2
10°	2020.6	2020.6	2019.0	2018.2	2021.4
12.5°	2000.4	2001.2	1999.6	1998.8	2002.8
15°	1974.5	1975.4	1974.5	1973.7	1977.0
17.5°	1947.1	1947.9	1946.3	1943.8	1947.1
20°	1912.3	1913.9	1910.7	1909.1	1912.3
22.5°	1873.5	1875.1	1871.9	1870.3	1870.3
25°	1830.7	1829.9	1826.6	1823.4	1824.2
27.5°	1780.6	1781.4	1776.5	1773.3	1775.7
30°	1726.4	1727.2	1719.9	1717.5	1718.3
32.5°	1665.8	1665.0	1658.5	1654.5	1654.5
35°	1600.3	1597.9	1590.6	1584.2	1584.2
37.5°	1524.4	1522.7	1514.7	1506.6	1504.1
40°	1441.1	1439.5	1427.4	1416.9	1412.8
42.5°	1355.4	1350.6	1331.2	1315.0	1311.0
45°	1260.9	1252.0	1223.7	1206.7	1202.7
47.5°	1159.0	1147.7	1108.9	1089.5	1087.9
50°	1051.5	1031.3	992.5	967.5	964.2
52.5°	943.2	914.1	869.7	851.1	855.9
55°	834.9	801.0	760.6	742.8	749.2
57.5°	729.8	694.3	659.5	641.7	645.8
60°	630.4	599.7	566.6	552.0	556.9
62.5°	532.6	513.2	484.9	472.0	478.5
65°	449.4	434.8	410.6	402.5	405.7
67.5°	376.6	365.3	344.3	337.8	342.7
70°	308.8	300.7	284.5	282.1	286.1
72.5°	244.1	239.2	230.4	226.3	228.7
75°	183.5	180.2	175.4	173.0	177.0
77.5°	132.6	130.1	128.5	128.5	129.3
80°	89.7	88.9	88.1	87.3	88.9
82.5°	55.0	55.0	55.0	55.0	55.8
85°	27.5	28.3	29.1	28.3	29.1
87.5°	8.9	9.7	10.5	10.5	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)