

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: P1192891

Luminaire Tested: 24PT-45-PB1-L840

Issue Date: 10/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P1192891
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-L840
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND BEVEL LENS
Light Source: -
Ballast/Driver: -

Summary

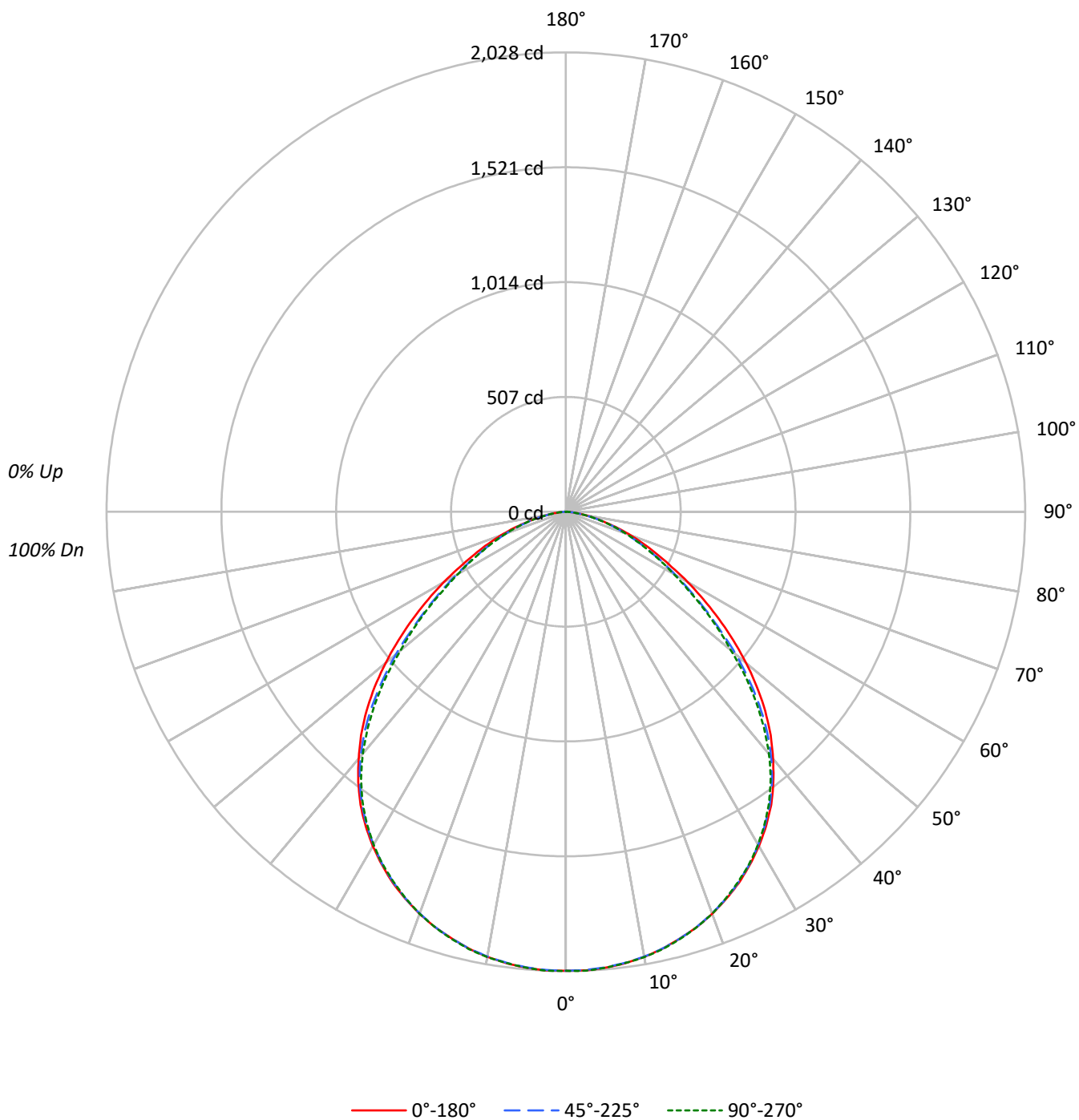
Lumens per Lamp: N/A
Luminaire Lumens: 4812.0 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.32
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')
CIE Type: Direct

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°	2898	2898	2898
5°	2900	2898	2900
10°	2898	2895	2899
15°	2887	2887	2890
20°	2874	2872	2874
25°	2853	2846	2843
30°	2815	2805	2802
35°	2759	2742	2731
40°	2657	2631	2605
45°	2518	2444	2402
50°	2310	2181	2119
55°	2056	1873	1845
60°	1781	1600	1573
65°	1502	1372	1356
70°	1275	1175	1181
75°	1001	957	966
80°	730	717	723
85°	445	471	471

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2518 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.9	4.0
10°-20°	550.4	11.4
20°-30°	830.8	17.3
30°-40°	979.7	20.4
40°-50°	930.9	19.3
50°-60°	686.9	14.3
60°-70°	414.6	8.6
70°-80°	189.8	3.9
80°-90°	37.0	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°	1573.2	32.7
0°-40°	2552.9	53.1
0°-60°	4170.6	86.7
0°-90°	4812.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4812.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2026	2026	2026	2026	2026	
5°	2020	2021	2018	2017	2020	192
15°	1950	1951	1950	1949	1952	551
25°	1808	1807	1804	1801	1801	832
35°	1580	1578	1571	1564	1564	985
45°	1245	1236	1208	1192	1188	956
55°	824	791	751	734	740	738
65°	444	429	405	398	401	446
75°	181	178	173	171	175	197
85°	27	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°	2026.4	2026.4	2026.4	2026.4	2026.4
2.5°	2026.4	2026.4	2024.9	2023.3	2028.0
5°	2020.1	2020.9	2018.5	2016.9	2020.1
7.5°	2010.5	2010.5	2008.1	2006.5	2009.7
10°	1995.3	1995.3	1993.7	1992.9	1996.1
12.5°	1975.4	1976.2	1974.6	1973.8	1977.8
15°	1949.8	1950.6	1949.8	1949.0	1952.2
17.5°	1922.7	1923.5	1921.9	1919.5	1922.7
20°	1888.4	1890.0	1886.8	1885.2	1888.4
22.5°	1850.1	1851.7	1848.5	1846.9	1846.9
25°	1807.8	1807.0	1803.8	1800.6	1801.4
27.5°	1758.3	1759.1	1754.3	1751.1	1753.5
30°	1704.8	1705.6	1698.4	1696.0	1696.8
32.5°	1644.9	1644.1	1637.8	1633.8	1633.8
35°	1580.3	1577.9	1570.7	1564.3	1564.3
37.5°	1505.3	1503.7	1495.7	1487.7	1485.3
40°	1423.1	1421.5	1409.5	1399.1	1395.1
42.5°	1338.5	1333.7	1314.5	1298.6	1294.6
45°	1245.1	1236.3	1208.4	1191.6	1187.6
47.5°	1144.5	1133.3	1095.0	1075.9	1074.3
50°	1038.4	1018.4	980.1	955.4	952.2
52.5°	931.4	902.7	858.8	840.4	845.2
55°	824.5	790.9	751.0	733.5	739.9
57.5°	720.7	685.6	651.3	633.7	637.7
60°	622.5	592.2	559.5	545.1	549.9
62.5°	526.0	506.8	478.9	466.1	472.5
65°	443.8	429.4	405.4	397.5	400.7
67.5°	371.9	360.8	340.0	333.6	338.4
70°	304.9	296.9	280.9	278.5	282.5
72.5°	241.0	236.2	227.5	223.5	225.9
75°	181.2	178.0	173.2	170.8	174.8
77.5°	130.9	128.5	126.9	126.9	127.7
80°	88.6	87.8	87.0	86.2	87.8
82.5°	54.3	54.3	54.3	54.3	55.1
85°	27.1	27.9	28.7	27.9	28.7
87.5°	8.8	9.6	10.4	10.4	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)