

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: P1471830

Luminaire Tested: 24PTR-50S-PL1-L835-UNV-STD-W

Issue Date: 6/22/2026

Test Information

Test Method: LM-79-2019
Report Number: P1471830
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737719)
Test Lab: INNOVATION CENTER
Issue Date: 6/22/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-50S-PL1-L835-UNV-STD-W
Description: 5500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PL1 Lens White Recess
Frame
Light Source: -
Ballast/Driver: -

Summary

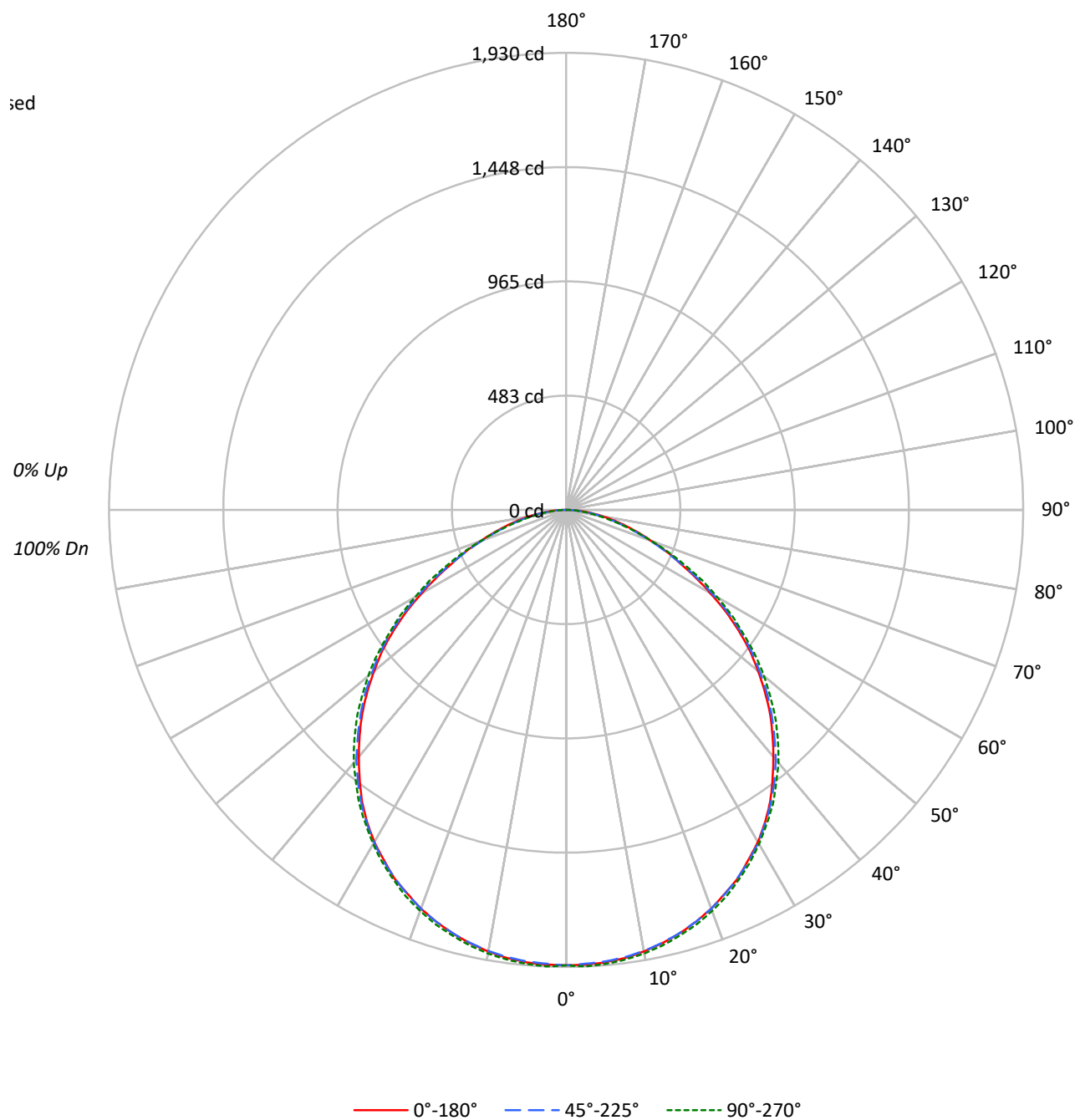
Lumens per Lamp: N/A
Luminaire Lumens: 5069.6 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44.1
Input Voltage (V): 120
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					0
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			0
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	109	105	101	97	107	103	99	96		98	95	93			94	92	90			91
2	100	92	86	80	97	90	84	79		87	82	77			83	79	75			80
3	91	81	73	67	89	80	72	66		77	70	65			74	69	64			71
4	84	72	64	57	82	71	63	57		68	61	56			66	60	55			64
5	77	65	56	49	75	64	55	49		61	54	49			60	53	48			58
6	71	58	50	43	69	57	49	43		56	48	43			54	47	42			52
7	66	53	44	38	65	52	44	38		51	43	38			49	43	38			48
8	62	48	40	34	60	48	40	34		46	39	34			45	39	34			44
9	58	44	36	31	56	44	36	31		43	36	31			42	35	30			41
10	54	41	33	28	53	41	33	28		40	33	28			39	32	28			38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2588	2588	2588
5°	2590	2585	2599
10°	2587	2584	2598
15°	2579	2578	2591
20°	2566	2566	2580
25°	2548	2545	2559
30°	2516	2520	2532
35°	2468	2478	2498
40°	2392	2419	2450
45°	2317	2336	2381
50°	2215	2239	2283
55°	2086	2120	2145
60°	1892	1933	1981
65°	1681	1699	1767
70°	1502	1472	1509
75°	1355	1277	1252
80°	1232	1144	1015
85°	1044	948	815

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2381 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.4	3.6
10°-20°	523.2	10.3
20°-30°	791.5	15.6
30°-40°	943.4	18.6
40°-50°	948.7	18.7
50°-60°	805.1	15.9
60°-70°	536.1	10.6
70°-80°	267.7	5.3
80°-90°	71.6	1.4
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°	1497.1	29.5
0°-40°	2440.6	48.1
0°-60°	4194.3	82.7
0°-90°	5069.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5069.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1923	1923	1923	1923	1923	
5°	1918	1918	1914	1922	1925	182
15°	1851	1853	1850	1858	1860	522
25°	1717	1717	1714	1722	1724	789
35°	1503	1504	1508	1519	1521	937
45°	1218	1220	1228	1244	1251	937
55°	889	896	904	912	914	793
65°	528	532	534	542	555	529
75°	261	257	246	240	241	280
85°	68	66	61	58	53	78
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1923.3	1923.3	1923.3	1923.3	1923.3
2.5°	1921.7	1923.3	1918.1	1927.4	1929.7
5°	1917.6	1918.1	1913.9	1922.5	1924.6
7.5°	1908.3	1909.0	1904.6	1913.9	1915.2
10°	1893.2	1894.8	1891.2	1899.7	1901.8
12.5°	1874.1	1876.1	1872.5	1881.8	1883.4
15°	1851.3	1853.4	1850.5	1858.3	1859.8
17.5°	1823.3	1824.9	1823.3	1830.6	1834.7
20°	1792.0	1792.0	1792.0	1798.5	1802.1
22.5°	1752.9	1756.5	1755.0	1763.5	1767.1
25°	1716.6	1716.6	1714.3	1722.3	1723.6
27.5°	1665.9	1671.6	1671.1	1678.1	1679.6
30°	1619.6	1621.1	1621.9	1626.8	1629.7
32.5°	1563.4	1564.7	1567.0	1574.0	1574.8
35°	1502.8	1504.3	1508.5	1519.1	1520.6
37.5°	1432.4	1440.1	1443.7	1455.1	1456.4
40°	1361.7	1366.6	1377.5	1389.4	1395.1
42.5°	1289.7	1295.4	1301.9	1318.2	1323.3
45°	1217.7	1219.8	1227.8	1244.1	1251.4
47.5°	1138.0	1144.4	1151.4	1165.7	1170.1
50°	1058.2	1065.2	1069.6	1082.3	1090.8
52.5°	977.7	984.2	989.1	996.8	1005.4
55°	889.4	895.6	903.6	912.2	914.3
57.5°	799.5	806.5	811.7	820.8	830.1
60°	703.2	711.3	718.2	726.8	736.1
62.5°	613.6	617.0	624.3	638.5	652.0
65°	527.9	532.3	533.6	541.7	555.1
67.5°	456.7	456.7	450.3	453.1	468.1
70°	381.9	379.1	374.1	371.3	383.5
72.5°	321.3	317.7	307.1	302.2	308.6
75°	260.7	257.1	245.7	240.0	240.8
77.5°	209.5	203.8	194.4	184.6	182.5
80°	159.0	156.6	147.6	138.3	131.0
82.5°	112.6	107.7	102.5	96.8	91.1
85°	67.6	66.3	61.4	57.7	52.8
87.5°	27.7	27.7	26.4	24.9	23.6
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room Dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	14.5	16.1	14.9	16.4	16.7	14.7	16.3	15.0	16.6	16.9
	3H	15.9	17.3	16.3	17.6	18.0	16.0	17.4	16.4	17.8	18.1
	4H	16.4	17.7	16.8	18.1	18.5	16.4	17.8	16.8	18.1	18.5
	6H	16.8	18.0	17.2	18.4	18.8	16.7	17.9	17.1	18.3	18.7
	8H	16.9	18.1	17.3	18.5	18.9	16.8	18.0	17.2	18.4	18.8
	12H	17.0	18.1	17.4	18.5	18.9	16.8	18.0	17.3	18.3	18.8
4H	2H	15.0	16.4	15.4	16.7	17.1	15.1	16.5	15.5	16.8	17.2
	3H	16.6	17.7	17.0	18.1	18.5	16.7	17.8	17.1	18.2	18.6
	4H	17.2	18.2	17.6	18.6	19.1	17.2	18.2	17.6	18.6	19.0
	6H	17.7	18.6	18.2	19.0	19.5	17.6	18.5	18.0	18.9	19.4
	8H	17.9	18.7	18.4	19.2	19.6	17.7	18.5	18.2	19.0	19.4
	12H	18.0	18.8	18.5	19.2	19.7	17.8	18.5	18.3	19.0	19.5
8H	4H	17.4	18.2	17.9	18.7	19.2	17.4	18.2	17.9	18.7	19.1
	6H	18.0	18.7	18.5	19.2	19.7	17.9	18.6	18.4	19.1	19.5
	8H	18.3	18.9	18.8	19.4	19.9	18.1	18.7	18.6	19.2	19.7
	12H	18.5	19.0	19.0	19.5	20.1	18.2	18.7	18.7	19.2	19.8
12H	4H	17.4	18.2	17.9	18.6	19.1	17.4	18.2	17.9	18.6	19.1
	6H	18.1	18.7	18.6	19.2	19.7	17.9	18.5	18.5	19.0	19.5
	8H	18.4	18.9	18.9	19.4	20.0	18.1	18.7	18.7	19.2	19.7

(END OF REPORT)