

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: P1471829

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

Issue Date: 6/22/2026

Test Information

Test Method: LM-79-2019
Report Number: P1471829
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-B
Description: 5500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PL1 Lens Black Recess
Frame
Light Source: -
Ballast/Driver: -

Summary

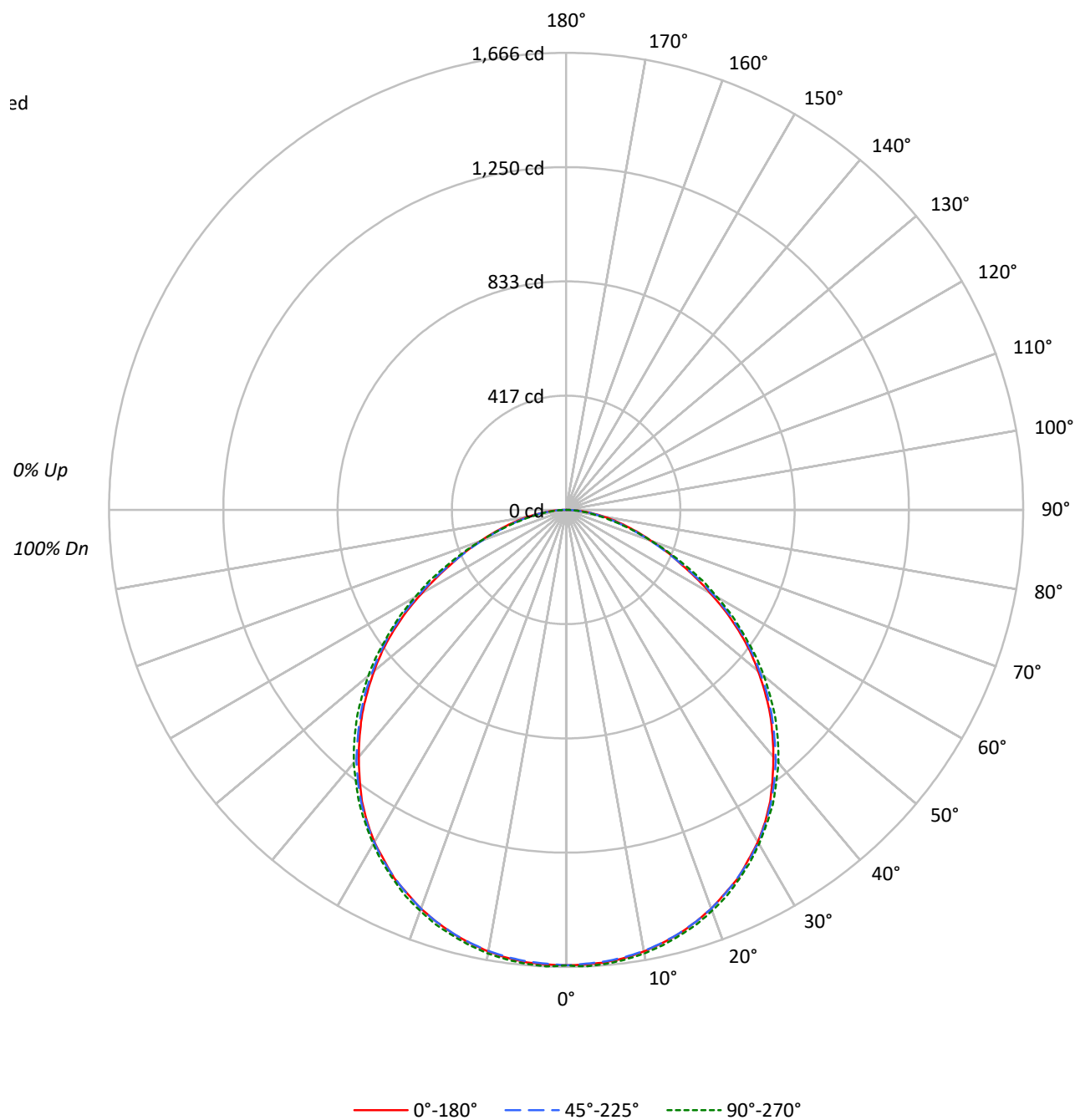
Lumens per Lamp: N/A
Luminaire Lumens: 4375.9 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2234	2234	2234
5°	2236	2231	2244
10°	2233	2230	2243
15°	2226	2225	2236
20°	2215	2215	2227
25°	2200	2197	2209
30°	2172	2175	2185
35°	2131	2139	2156
40°	2064	2088	2115
45°	2000	2017	2055
50°	1912	1932	1971
55°	1801	1830	1851
60°	1633	1668	1710
65°	1451	1466	1526
70°	1297	1270	1302
75°	1170	1103	1080
80°	1063	987	876
85°	900	818	704

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2055 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.5	3.6
10°-20°	451.6	10.3
20°-30°	683.2	15.6
30°-40°	814.3	18.6
40°-50°	818.8	18.7
50°-60°	694.9	15.9
60°-70°	462.7	10.6
70°-80°	231.0	5.3
80°-90°	61.8	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°	1292.3	29.5
0°-40°	2106.6	48.1
0°-60°	3620.4	82.7
0°-90°	4375.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4375.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1660	1660	1660	1660	1660	
5°	1655	1656	1652	1659	1661	157
15°	1598	1600	1597	1604	1605	451
25°	1482	1482	1480	1487	1488	681
35°	1297	1298	1302	1311	1313	809
45°	1051	1053	1060	1074	1080	809
55°	768	773	780	787	789	684
65°	456	460	461	468	479	457
75°	225	222	212	207	208	242
85°	58	57	53	50	46	67
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1660.1	1660.1	1660.1	1660.1	1660.1
2.5°	1658.7	1660.1	1655.6	1663.7	1665.7
5°	1655.2	1655.6	1652.0	1659.4	1661.2
7.5°	1647.1	1647.8	1644.0	1652.0	1653.2
10°	1634.2	1635.5	1632.4	1639.7	1641.5
12.5°	1617.6	1619.4	1616.3	1624.3	1625.7
15°	1598.0	1599.7	1597.3	1604.0	1605.3
17.5°	1573.8	1575.2	1573.8	1580.1	1583.7
20°	1546.8	1546.8	1546.8	1552.4	1555.5
22.5°	1513.0	1516.2	1514.8	1522.2	1525.3
25°	1481.7	1481.7	1479.7	1486.7	1487.8
27.5°	1437.9	1442.9	1442.4	1448.4	1449.8
30°	1397.9	1399.3	1399.9	1404.2	1406.6
32.5°	1349.4	1350.6	1352.6	1358.6	1359.3
35°	1297.1	1298.5	1302.1	1311.2	1312.6
37.5°	1236.3	1243.1	1246.2	1256.0	1257.1
40°	1175.3	1179.6	1189.0	1199.2	1204.2
42.5°	1113.2	1118.1	1123.7	1137.8	1142.3
45°	1051.1	1052.9	1059.8	1073.9	1080.1
47.5°	982.2	987.8	993.9	1006.2	1010.0
50°	913.4	919.4	923.2	934.2	941.6
52.5°	843.9	849.5	853.7	860.4	867.8
55°	767.7	773.1	780.0	787.4	789.1
57.5°	690.1	696.2	700.6	708.5	716.5
60°	607.0	613.9	620.0	627.3	635.4
62.5°	529.7	532.6	538.8	551.1	562.7
65°	455.7	459.5	460.6	467.5	479.2
67.5°	394.2	394.2	388.6	391.1	404.1
70°	329.6	327.2	322.9	320.5	331.0
72.5°	277.4	274.2	265.1	260.8	266.4
75°	225.1	221.9	212.1	207.2	207.8
77.5°	180.8	175.9	167.8	159.3	157.6
80°	137.2	135.2	127.4	119.3	113.1
82.5°	97.2	93.0	88.5	83.6	78.7
85°	58.3	57.2	53.0	49.8	45.6
87.5°	23.9	23.9	22.8	21.5	20.3
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	14.0	15.6	14.4	15.9	16.2	14.1	15.7	14.5	16.1	16.4
	3H	15.4	16.8	15.8	17.1	17.5	15.5	16.9	15.9	17.2	17.6
	4H	15.9	17.2	16.3	17.6	18.0	15.9	17.3	16.3	17.6	18.0
	6H	16.3	17.5	16.7	17.9	18.3	16.2	17.4	16.6	17.8	18.2
	8H	16.4	17.6	16.8	18.0	18.4	16.3	17.5	16.7	17.8	18.2
	12H	16.5	17.6	16.9	18.0	18.4	16.3	17.4	16.7	17.8	18.3
4H	2H	14.5	15.8	14.9	16.2	16.6	14.6	16.0	15.0	16.3	16.7
	3H	16.1	17.2	16.5	17.6	18.0	16.1	17.3	16.6	17.7	18.1
	4H	16.7	17.7	17.1	18.1	18.6	16.7	17.7	17.1	18.1	18.5
	6H	17.2	18.1	17.7	18.5	19.0	17.1	17.9	17.5	18.4	18.8
	8H	17.4	18.2	17.8	18.6	19.1	17.2	18.0	17.6	18.4	18.9
	12H	17.5	18.2	18.0	18.7	19.2	17.3	18.0	17.7	18.5	18.9
8H	4H	16.9	17.7	17.4	18.2	18.6	16.9	17.7	17.3	18.2	18.6
	6H	17.5	18.2	18.0	18.7	19.2	17.4	18.1	17.9	18.5	19.0
	8H	17.8	18.4	18.3	18.9	19.4	17.5	18.2	18.1	18.7	19.2
	12H	18.0	18.5	18.5	19.0	19.6	17.7	18.2	18.2	18.7	19.3
12H	4H	16.9	17.7	17.4	18.1	18.6	16.9	17.6	17.4	18.1	18.6
	6H	17.6	18.2	18.1	18.6	19.2	17.4	18.0	17.9	18.5	19.0
	8H	17.8	18.4	18.4	18.9	19.4	17.6	18.2	18.1	18.7	19.2

(END OF REPORT)