

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: P1471823

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

Issue Date: 6/22/2026

Test Information

Test Method: LM-79-2019
Report Number: P1471823
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2310-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 6/22/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-50S-L835-UNV-STD-B
Description: 5500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND Frosted Lens Black Recessed Frame
Light Source: -
Ballast/Driver: -

Summary

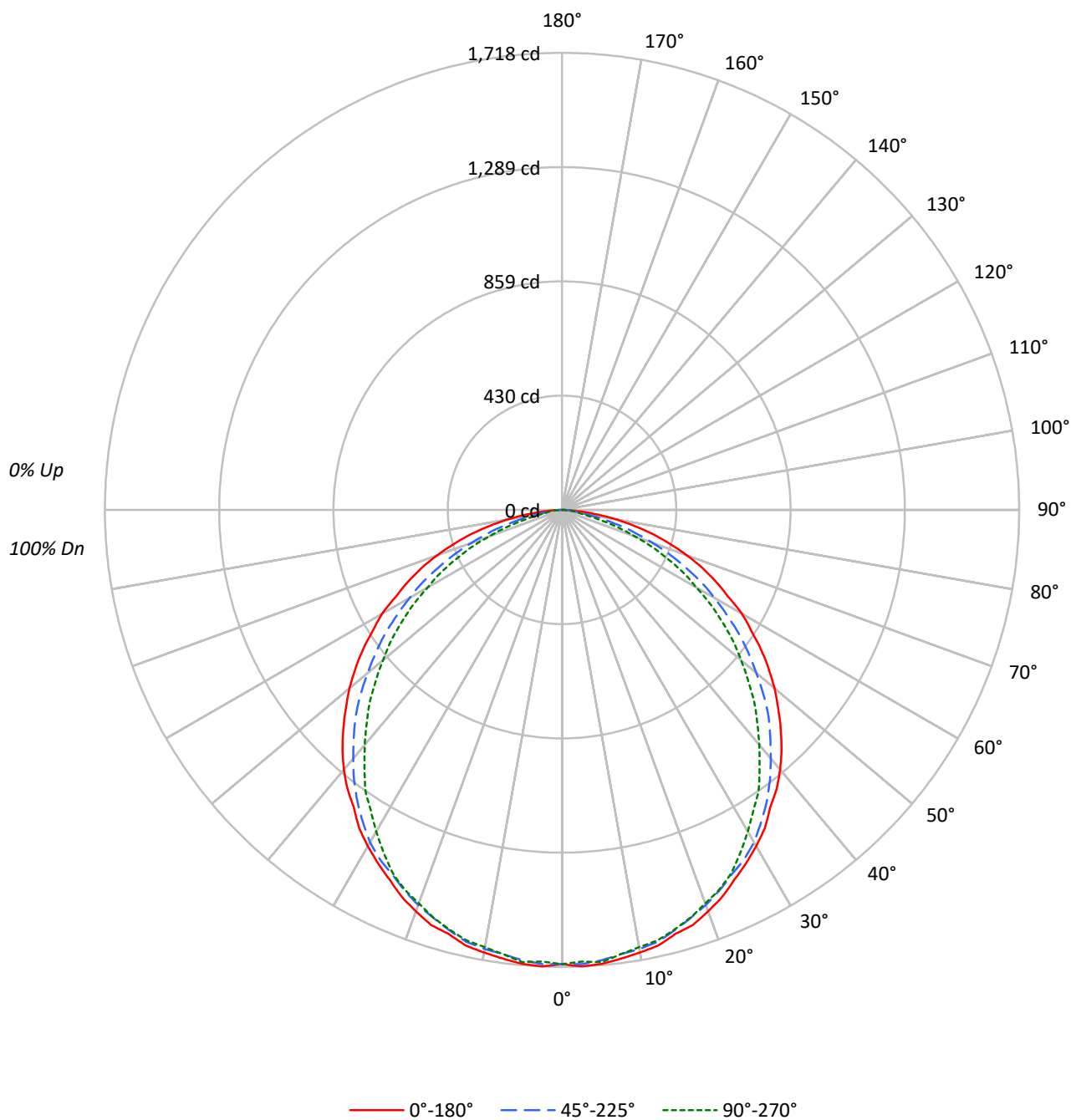
Lumens per Lamp: N/A
Luminaire Lumens: 4547.7 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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			95	92	90			91
2	100	92	85	80	97	90	84	79		87	81	77			83	79	75			80
3	91	81	73	67	89	79	72	66		76	70	65			74	68	64			71
4	84	72	63	57	81	71	63	56		68	61	56			66	60	55			64
5	77	64	56	49	75	63	55	49		61	54	48			59	53	48			57
6	71	58	49	43	69	57	49	43		55	48	42			54	47	42			52
7	66	53	44	38	64	52	44	38		50	43	38			49	42	37			48
8	61	48	40	34	60	47	39	34		46	39	34			45	38	33			44
9	57	44	36	31	56	44	36	30		42	35	30			41	35	30			40
10	54	41	33	28	53	40	33	28		39	32	28			38	32	27			37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2297	2297	2297
5°	2314	2295	2305
10°	2308	2290	2280
15°	2298	2279	2275
20°	2299	2263	2254
25°	2276	2243	2236
30°	2267	2242	2169
35°	2241	2201	2116
40°	2240	2143	2025
45°	2212	2088	1944
50°	2182	1994	1839
55°	2140	1901	1727
60°	2102	1779	1568
65°	2030	1632	1402
70°	1964	1420	1144
75°	1845	1121	788
80°	1599	678	473
85°	1067	486	455

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2212 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.8	3.6
10°-20°	463.1	10.2
20°-30°	699.5	15.4
30°-40°	831.7	18.3
40°-50°	843.5	18.5
50°-60°	732.5	16.1
60°-70°	520.0	11.4
70°-80°	248.5	5.5
80°-90°	47.1	1.0
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°	1324.5	29.1
0°-40°	2156.2	47.4
0°-60°	3732.2	82.1
0°-90°	4547.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4547.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1707	1707	1707	1707	1707	
5°	1713	1707	1699	1703	1706	163
15°	1649	1653	1636	1634	1633	467
25°	1533	1531	1511	1517	1506	708
35°	1365	1363	1340	1294	1288	857
45°	1162	1152	1097	1039	1022	897
55°	912	885	810	763	736	815
65°	638	590	512	458	440	632
75°	355	290	216	171	152	372
85°	69	37	32	30	30	87
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1707.3	1707.3	1707.3	1707.3	1707.3
2.5°	1717.5	1711.4	1709.3	1716.5	1699.2
5°	1713.4	1707.3	1699.2	1703.2	1706.3
7.5°	1701.2	1696.1	1684.9	1694.1	1684.9
10°	1689.0	1683.9	1675.8	1678.8	1668.7
12.5°	1676.8	1664.6	1662.6	1664.6	1657.5
15°	1649.4	1653.4	1636.1	1634.1	1633.1
17.5°	1636.1	1626.0	1607.7	1608.7	1606.6
20°	1605.6	1593.4	1580.2	1578.2	1574.1
22.5°	1574.1	1559.9	1547.7	1553.8	1544.6
25°	1533.4	1531.4	1511.1	1517.2	1506.0
27.5°	1497.8	1490.7	1481.6	1468.4	1452.1
30°	1459.2	1452.1	1442.9	1408.4	1396.2
32.5°	1418.5	1410.4	1392.1	1351.4	1338.2
35°	1364.6	1362.6	1340.2	1294.5	1288.4
37.5°	1324.0	1301.6	1283.3	1236.5	1219.2
40°	1275.1	1262.9	1220.2	1175.5	1153.1
42.5°	1221.3	1207.0	1158.2	1110.4	1086.0
45°	1162.3	1152.1	1097.2	1039.2	1021.9
47.5°	1101.3	1092.1	1027.0	971.1	948.7
50°	1042.3	1031.1	952.8	898.9	878.6
52.5°	978.2	959.9	882.6	829.8	810.4
55°	912.1	884.7	810.4	762.6	736.2
57.5°	842.0	816.5	734.2	684.3	663.0
60°	781.0	745.4	661.0	610.1	582.7
62.5°	702.7	672.1	591.8	531.8	518.6
65°	637.6	589.8	512.5	457.6	440.3
67.5°	571.5	515.5	437.3	381.3	372.2
70°	499.3	441.3	361.0	306.1	290.8
72.5°	426.1	369.1	290.8	232.9	223.7
75°	354.9	289.8	215.6	170.8	151.5
77.5°	277.6	218.6	151.5	104.7	92.5
80°	206.4	147.4	87.5	62.0	61.0
82.5°	135.2	85.4	46.8	47.8	45.8
85°	69.1	36.6	31.5	30.5	29.5
87.5°	13.2	14.2	15.3	15.3	15.3
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	15.0	16.6	15.4	16.9	17.3	13.7	15.3	14.1	15.6	15.9
	3H	16.9	18.3	17.2	18.6	19.0	15.0	16.4	15.4	16.8	17.1
	4H	17.6	18.9	17.9	19.3	19.6	15.3	16.6	15.7	17.0	17.4
	6H	18.0	19.3	18.4	19.7	20.0	15.4	16.6	15.8	17.0	17.4
	8H	18.2	19.4	18.6	19.8	20.2	15.4	16.6	15.8	16.9	17.3
	12H	18.2	19.4	18.7	19.8	20.2	15.4	16.5	15.8	16.9	17.3
4H	2H	15.4	16.8	15.8	17.2	17.5	14.4	15.7	14.8	16.1	16.5
	3H	17.5	18.6	17.9	19.0	19.4	15.8	16.9	16.2	17.3	17.7
	4H	18.3	19.3	18.7	19.7	20.1	16.2	17.2	16.6	17.6	18.0
	6H	18.8	19.7	19.3	20.2	20.6	16.3	17.2	16.7	17.6	18.1
	8H	19.0	19.8	19.5	20.3	20.8	16.3	17.1	16.8	17.6	18.1
	12H	19.1	19.9	19.6	20.3	20.8	16.3	17.1	16.8	17.6	18.0
8H	4H	18.4	19.2	18.8	19.6	20.1	16.4	17.3	16.9	17.7	18.2
	6H	19.0	19.7	19.5	20.2	20.6	16.6	17.3	17.1	17.8	18.2
	8H	19.2	19.8	19.7	20.3	20.8	16.6	17.2	17.1	17.8	18.2
	12H	19.3	19.9	19.8	20.4	20.9	16.7	17.2	17.2	17.7	18.3
12H	4H	18.3	19.1	18.8	19.6	20.0	16.5	17.2	16.9	17.7	18.2
	6H	19.0	19.6	19.5	20.1	20.6	16.6	17.2	17.1	17.7	18.2
	8H	19.2	19.7	19.7	20.2	20.8	16.7	17.2	17.2	17.7	18.3

(END OF REPORT)