

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: P1471814

Luminaire Tested: 24PTR-45S-PL1-L835-UNV-STD-W

Issue Date: 6/22/2026

Test Information

Test Method: LM-79-2019
Report Number: P1471814
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-45S-PL1-L835-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PL1 Lens White Recess
Frame
Light Source: -
Ballast/Driver: -

Summary

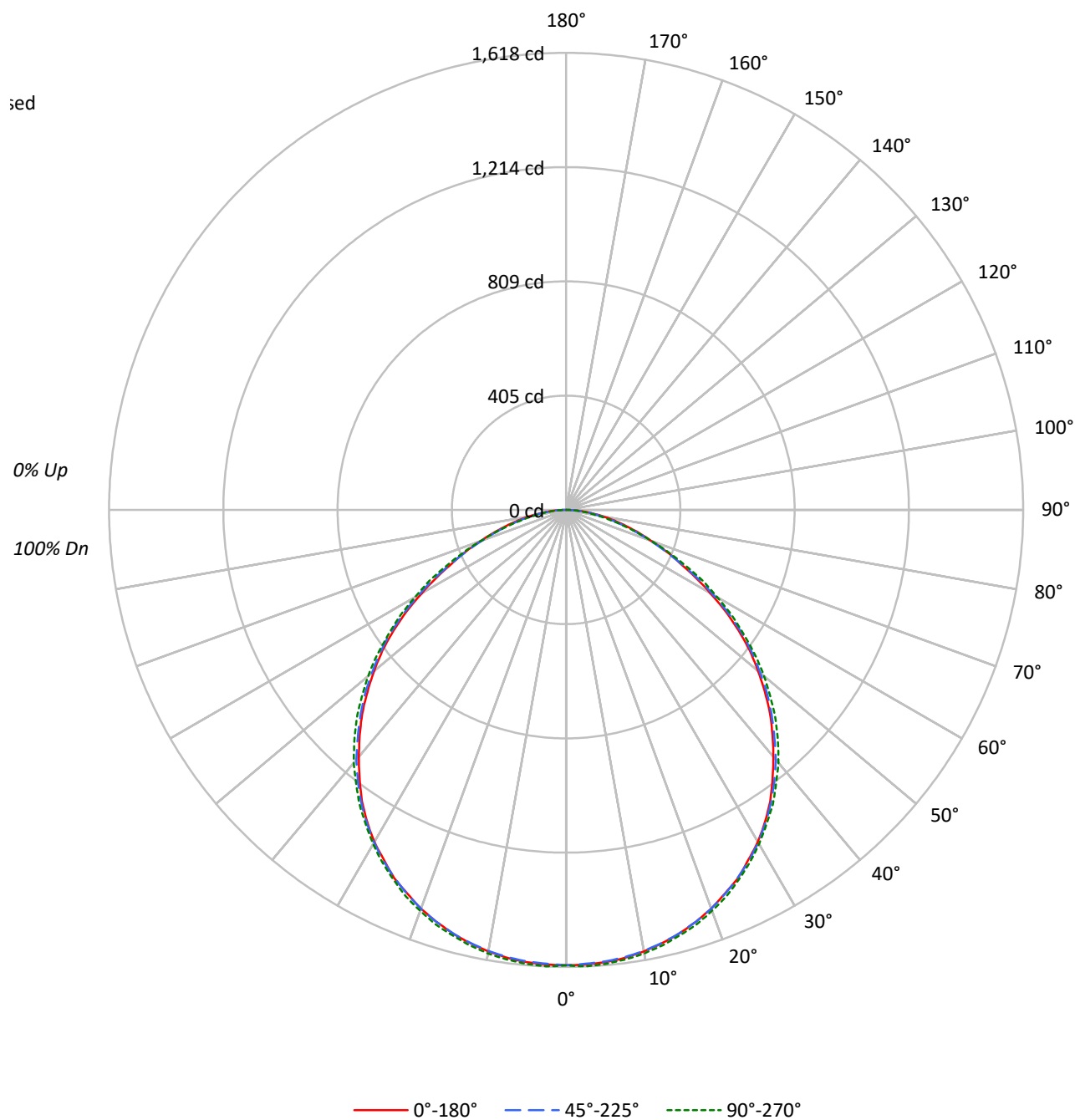
Lumens per Lamp: N/A
Luminaire Lumens: 4249.7 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35.6
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		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	103	99	96		98	95	93		94	92	90		91	89	87
2	100	92	86	80	97	90	84	79		87	82	77		83	79	75		80	77	74
3	91	81	73	67	89	80	72	66		77	70	65		74	69	64		71	67	63
4	84	72	64	57	82	71	63	57		68	61	56		66	60	55		64	59	55
5	77	65	56	49	75	64	55	49		61	54	49		60	53	48		58	52	48
6	71	58	50	43	69	57	49	43		56	48	43		54	47	42		52	47	42
7	66	53	44	38	65	52	44	38		51	43	38		49	43	38		48	42	37
8	62	48	40	34	60	48	40	34		46	39	34		45	39	34		44	38	34
9	58	44	36	31	56	44	36	31		43	36	31		42	35	30		41	35	30
10	54	41	33	28	53	41	33	28		40	33	28		39	32	28		38	32	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2169	2169	2169
5°	2171	2167	2179
10°	2168	2166	2178
15°	2162	2161	2172
20°	2151	2151	2163
25°	2136	2133	2145
30°	2109	2112	2122
35°	2069	2077	2094
40°	2005	2028	2054
45°	1942	1958	1996
50°	1857	1877	1914
55°	1749	1777	1798
60°	1586	1620	1661
65°	1409	1424	1481
70°	1259	1234	1264
75°	1136	1071	1050
80°	1033	958	851
85°	874	794	684

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1996 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.9	3.6
10°-20°	438.6	10.3
20°-30°	663.5	15.6
30°-40°	790.8	18.6
40°-50°	795.2	18.7
50°-60°	674.9	15.9
60°-70°	449.4	10.6
70°-80°	224.4	5.3
80°-90°	60.0	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°	1255.0	29.5
0°-40°	2045.8	48.1
0°-60°	3515.9	82.7
0°-90°	4249.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4249.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1612	1612	1612	1612	1612	
5°	1607	1608	1604	1612	1613	153
15°	1552	1554	1551	1558	1559	438
25°	1439	1439	1437	1444	1445	662
35°	1260	1261	1264	1273	1275	786
45°	1021	1022	1029	1043	1049	785
55°	746	751	758	765	766	664
65°	443	446	447	454	465	444
75°	219	216	206	201	202	235
85°	57	56	51	48	44	66
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1612.2	1612.2	1612.2	1612.2	1612.2
2.5°	1610.9	1612.2	1607.9	1615.7	1617.6
5°	1607.4	1607.9	1604.4	1611.6	1613.3
7.5°	1599.6	1600.3	1596.6	1604.4	1605.5
10°	1587.0	1588.3	1585.3	1592.5	1594.2
12.5°	1571.0	1572.7	1569.7	1577.5	1578.8
15°	1551.9	1553.6	1551.2	1557.7	1559.0
17.5°	1528.4	1529.7	1528.4	1534.5	1538.0
20°	1502.2	1502.2	1502.2	1507.6	1510.6
22.5°	1469.4	1472.4	1471.1	1478.3	1481.3
25°	1439.0	1439.0	1437.0	1443.8	1444.9
27.5°	1396.5	1401.2	1400.8	1406.7	1408.0
30°	1357.6	1358.9	1359.6	1363.7	1366.1
32.5°	1310.5	1311.6	1313.5	1319.4	1320.1
35°	1259.7	1261.0	1264.5	1273.4	1274.7
37.5°	1200.7	1207.2	1210.2	1219.8	1220.9
40°	1141.4	1145.6	1154.7	1164.7	1169.4
42.5°	1081.1	1085.9	1091.3	1105.0	1109.3
45°	1020.8	1022.5	1029.2	1042.9	1049.0
47.5°	953.9	959.3	965.2	977.1	980.8
50°	887.1	892.9	896.6	907.2	914.4
52.5°	819.6	825.0	829.1	835.6	842.8
55°	745.5	750.8	757.5	764.6	766.4
57.5°	670.2	676.1	680.4	688.0	695.8
60°	589.5	596.2	602.1	609.2	617.1
62.5°	514.4	517.2	523.3	535.2	546.5
65°	442.6	446.2	447.3	454.1	465.3
67.5°	382.9	382.9	377.4	379.8	392.4
70°	320.1	317.8	313.6	311.2	321.4
72.5°	269.4	266.3	257.4	253.3	258.7
75°	218.6	215.5	206.0	201.2	201.9
77.5°	175.6	170.8	163.0	154.8	153.0
80°	133.3	131.3	123.7	115.9	109.8
82.5°	94.4	90.3	85.9	81.2	76.4
85°	56.6	55.6	51.4	48.4	44.3
87.5°	23.2	23.2	22.1	20.8	19.8
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	13.9	15.5	14.3	15.8	16.1	14.0	15.6	14.4	16.0	16.3
	3H	15.3	16.7	15.7	17.0	17.4	15.4	16.8	15.8	17.1	17.5
	4H	15.8	17.1	16.2	17.5	17.9	15.8	17.2	16.2	17.5	17.9
	6H	16.2	17.4	16.6	17.8	18.2	16.1	17.3	16.5	17.7	18.1
	8H	16.3	17.5	16.7	17.9	18.3	16.2	17.3	16.6	17.7	18.1
	12H	16.4	17.5	16.8	17.9	18.3	16.2	17.3	16.6	17.7	18.2
4H	2H	14.4	15.7	14.8	16.1	16.5	14.5	15.9	14.9	16.2	16.6
	3H	16.0	17.1	16.4	17.5	17.9	16.0	17.2	16.4	17.6	18.0
	4H	16.6	17.6	17.0	18.0	18.5	16.6	17.6	17.0	18.0	18.4
	6H	17.1	18.0	17.6	18.4	18.9	17.0	17.8	17.4	18.3	18.7
	8H	17.3	18.1	17.7	18.5	19.0	17.1	17.9	17.5	18.3	18.8
	12H	17.4	18.1	17.9	18.6	19.1	17.2	17.9	17.6	18.4	18.8
8H	4H	16.8	17.6	17.3	18.1	18.5	16.8	17.6	17.2	18.1	18.5
	6H	17.4	18.1	17.9	18.6	19.1	17.3	18.0	17.8	18.4	18.9
	8H	17.7	18.3	18.2	18.8	19.3	17.4	18.1	18.0	18.6	19.1
	12H	17.9	18.4	18.4	18.9	19.5	17.6	18.1	18.1	18.6	19.2
12H	4H	16.8	17.6	17.3	18.0	18.5	16.8	17.5	17.3	18.0	18.5
	6H	17.5	18.1	18.0	18.5	19.1	17.3	17.9	17.8	18.4	18.9
	8H	17.7	18.3	18.3	18.8	19.3	17.5	18.1	18.0	18.6	19.1

(END OF REPORT)