

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: P1471812

Luminaire Tested: 24PTR-45S-PC3-L835-UNV-STD-W

Issue Date: 6/22/2026

Test Information

Test Method: LM-79-2019
Report Number: P1471812
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737711)
Test Lab: INNOVATION CENTER
Issue Date: 6/22/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-45S-PC3-L835-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PC3 Lens White Reces:
Frame
Light Source: -
Ballast/Driver: -

Summary

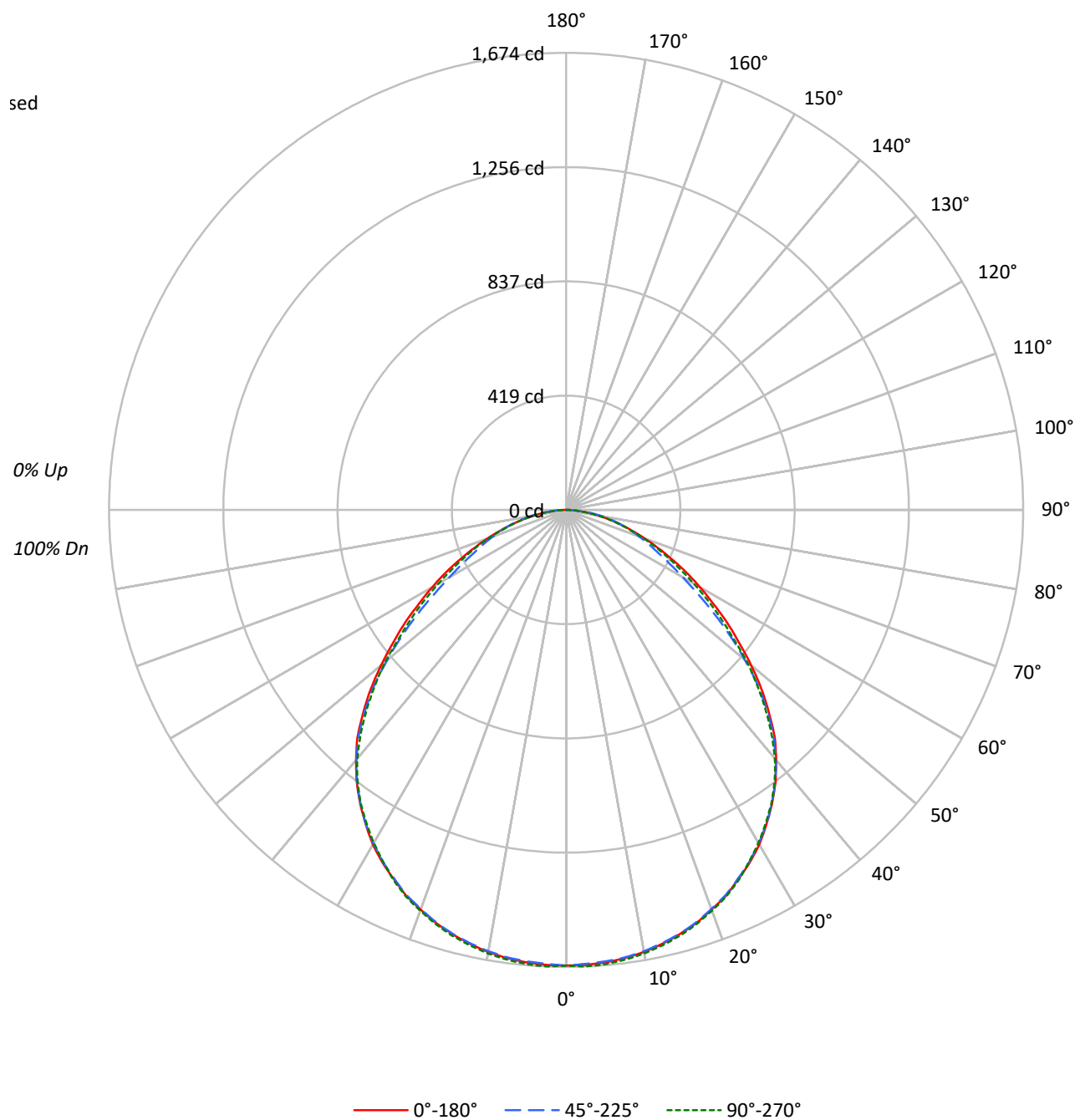
Lumens per Lamp: N/A
Luminaire Lumens: 4207.8 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	87	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	72
3	92	82	74	68	90	80	73	68	77	71	66	75	70	65	72	68	64	64	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	56	56	54
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	49	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	43	43	41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	39	39	37
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	35	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	31	31	30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	29	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2246	2246	2246
5°	2246	2242	2255
10°	2246	2242	2254
15°	2241	2238	2248
20°	2231	2227	2237
25°	2216	2212	2221
30°	2199	2192	2188
35°	2159	2157	2153
40°	2102	2099	2090
45°	1999	1984	1964
50°	1851	1788	1808
55°	1689	1552	1622
60°	1523	1324	1452
65°	1361	1184	1306
70°	1207	1120	1174
75°	1068	1086	1046
80°	921	1037	916
85°	690	820	690

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 2004 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.3	3.8
10°-20°	454.4	10.8
20°-30°	687.9	16.3
30°-40°	820.2	19.5
40°-50°	801.4	19.0
50°-60°	612.8	14.6
60°-70°	393.4	9.4
70°-80°	218.9	5.2
80°-90°	60.5	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°	1300.6	30.9
0°-40°	2120.8	50.4
0°-60°	3535.0	84.0
0°-90°	4207.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4207.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1669	1669	1669	1669	1669	
5°	1663	1664	1660	1668	1670	158
15°	1609	1610	1607	1612	1614	454
25°	1492	1494	1490	1495	1496	688
35°	1315	1316	1313	1313	1311	821
45°	1051	1053	1043	1040	1032	808
55°	720	695	662	670	691	643
65°	428	394	372	384	410	426
75°	205	207	209	206	201	219
85°	45	52	53	51	45	55
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1669.0	1669.0	1669.0	1669.0	1669.0
2.5°	1667.9	1668.6	1664.3	1671.4	1673.8
5°	1663.2	1664.3	1660.1	1667.9	1669.7
7.5°	1656.0	1657.1	1653.0	1660.8	1661.4
10°	1644.1	1644.7	1641.0	1648.9	1649.9
12.5°	1628.0	1629.8	1625.6	1632.8	1633.2
15°	1608.7	1610.0	1607.0	1612.4	1614.1
17.5°	1586.2	1586.8	1583.8	1589.6	1590.3
20°	1558.0	1558.0	1555.6	1562.3	1562.3
22.5°	1529.3	1527.6	1527.0	1529.3	1533.0
25°	1492.5	1494.2	1490.1	1494.9	1495.9
27.5°	1456.7	1456.7	1453.0	1455.4	1452.3
30°	1415.5	1413.1	1410.7	1411.1	1408.3
32.5°	1365.8	1365.8	1364.7	1364.7	1361.0
35°	1314.6	1315.7	1313.3	1312.7	1310.9
37.5°	1259.5	1261.5	1257.1	1256.1	1254.8
40°	1196.8	1196.8	1195.1	1192.7	1189.7
42.5°	1131.8	1131.8	1124.2	1118.1	1114.0
45°	1050.7	1053.0	1042.8	1040.5	1032.2
47.5°	970.0	968.2	954.6	952.8	948.1
50°	884.1	873.9	854.4	859.6	863.9
52.5°	798.2	785.6	757.0	762.8	770.0
55°	719.9	694.9	661.5	669.8	691.3
57.5°	638.1	604.7	571.3	586.9	613.6
60°	565.9	528.4	491.9	508.6	539.6
62.5°	496.7	456.8	427.5	443.6	469.8
65°	427.5	394.5	372.0	384.3	410.2
67.5°	364.2	342.0	326.6	332.5	353.3
70°	306.9	293.0	284.8	286.5	298.5
72.5°	252.5	249.0	246.0	246.0	247.0
75°	205.4	207.1	208.9	206.1	201.3
77.5°	161.8	167.7	172.0	165.9	160.1
80°	118.9	128.4	133.8	127.1	118.2
82.5°	81.1	92.0	93.7	89.6	79.4
85°	44.7	52.5	53.1	51.4	44.7
87.5°	16.7	19.7	21.5	19.7	17.4
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	13.3	14.8	13.6	15.1	15.5	13.0	14.6	13.4	14.9	15.2
	3H	14.7	16.1	15.1	16.4	16.8	14.5	15.9	14.9	16.2	16.6
	4H	15.3	16.6	15.7	16.9	17.3	15.1	16.4	15.5	16.7	17.1
	6H	15.6	16.9	16.1	17.2	17.6	15.5	16.7	15.9	17.1	17.4
	8H	15.8	16.9	16.2	17.3	17.7	15.6	16.7	16.0	17.1	17.5
	12H	15.8	16.9	16.3	17.3	17.8	15.7	16.8	16.1	17.1	17.6
4H	2H	13.7	15.0	14.1	15.3	15.7	13.5	14.8	13.9	15.1	15.5
	3H	15.4	16.4	15.8	16.8	17.2	15.2	16.3	15.6	16.7	17.1
	4H	16.0	17.0	16.5	17.4	17.9	15.9	16.9	16.3	17.3	17.7
	6H	16.6	17.4	17.0	17.9	18.3	16.4	17.3	16.9	17.7	18.2
	8H	16.7	17.6	17.2	18.0	18.5	16.6	17.4	17.1	17.9	18.3
	12H	16.8	17.6	17.3	18.0	18.5	16.7	17.4	17.2	17.9	18.4
8H	4H	16.3	17.1	16.8	17.6	18.0	16.2	17.0	16.6	17.4	17.9
	6H	17.0	17.6	17.5	18.1	18.6	16.8	17.5	17.3	18.0	18.5
	8H	17.2	17.8	17.7	18.3	18.8	17.1	17.7	17.6	18.2	18.7
	12H	17.4	17.9	17.9	18.4	19.0	17.3	17.8	17.8	18.3	18.9
12H	4H	16.3	17.0	16.8	17.5	18.0	16.2	16.9	16.7	17.4	17.9
	6H	17.0	17.6	17.6	18.1	18.6	16.9	17.5	17.4	18.0	18.5
	8H	17.3	17.9	17.8	18.4	18.9	17.2	17.7	17.7	18.2	18.8

(END OF REPORT)