

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: P1471730

Luminaire Tested: 22PTR-45S-PB1-L835-UNV-STD-W

Issue Date: 6/22/2026

Test Information

Test Method: LM-79-2019
Report Number: P1471730
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737703)
Test Lab: INNOVATION CENTER
Issue Date: 6/22/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22PTR-45S-PB1-L835-UNV-STD-W
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PB1 Lens White Reces:
Frame
Light Source: -
Ballast/Driver: -

Summary

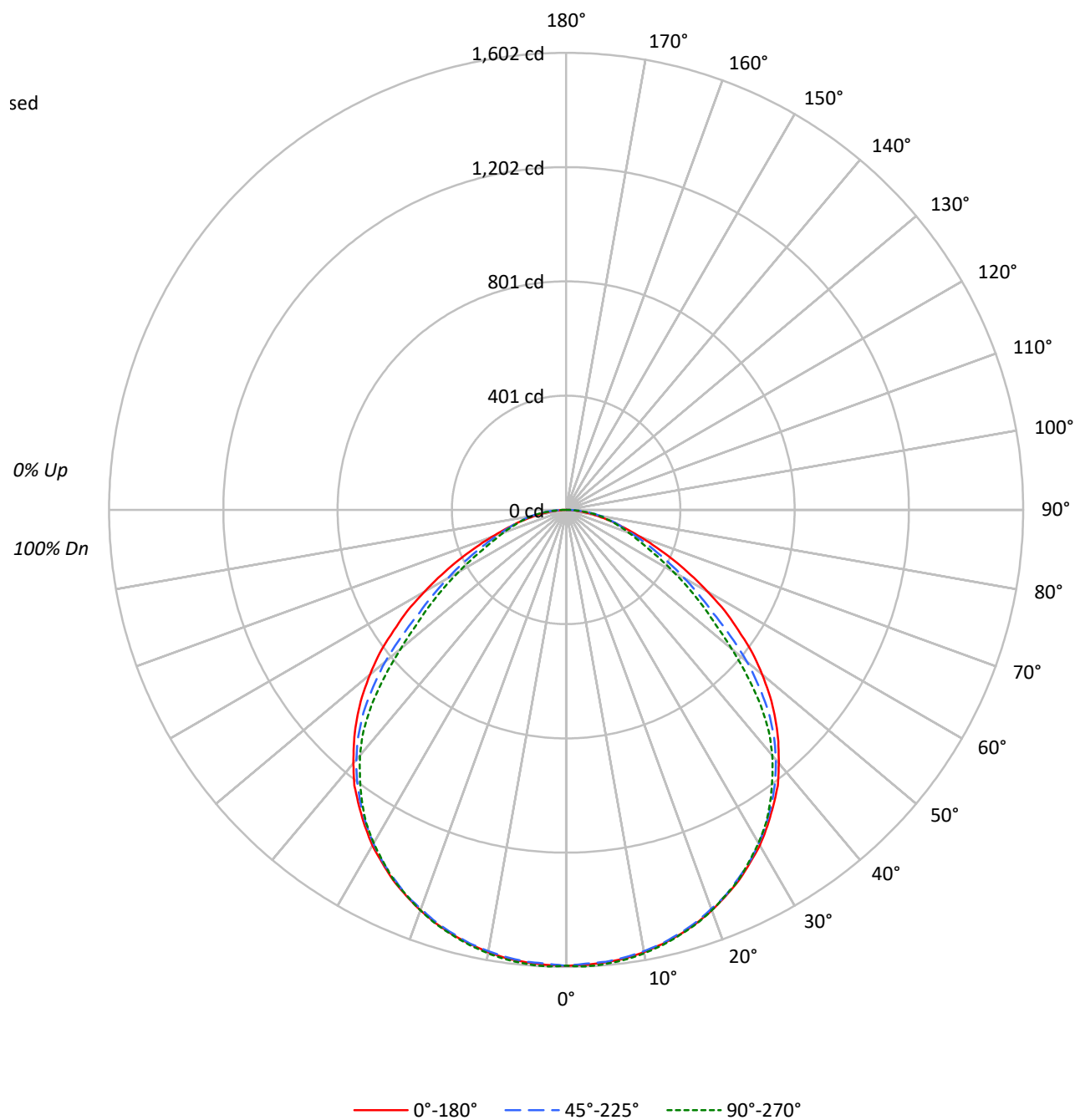
Lumens per Lamp: N/A
Luminaire Lumens: 3984.3 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 36.1
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		100
1	110	105	101	98	107	103	99	96	99	96	93		95	93	90		86
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		73
3	92	82	75	69	90	81	74	68	78	72	67		75	70	66		62
4	85	73	65	59	83	72	64	58	70	63	58		67	62	57		54
5	78	66	57	51	76	65	57	51	63	56	50		61	55	50		47
6	72	60	51	45	71	59	51	45	57	50	44		55	49	44		42
7	67	54	46	40	66	53	45	40	52	45	39		51	44	39		37
8	63	50	41	36	61	49	41	36	48	41	35		46	40	35		33
9	59	46	38	32	57	45	37	32	44	37	32		43	36	32		30
10	55	42	34	29	54	42	34	29	41	34	29		40	33	29		27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4300	4300	4300
5°	4300	4295	4316
10°	4302	4291	4312
15°	4293	4282	4298
20°	4277	4261	4277
25°	4254	4236	4248
30°	4220	4195	4189
35°	4158	4126	4100
40°	4073	4018	3949
45°	3949	3822	3664
50°	3752	3464	3167
55°	3458	2942	2729
60°	3078	2571	2337
65°	2641	2228	1990
70°	2180	1965	1825
75°	1838	1879	1778
80°	1554	1918	1829
85°	1216	1942	1701

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3949 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.5	3.8
10°-20°	434.7	10.9
20°-30°	658.5	16.5
30°-40°	784.7	19.7
40°-50°	767.3	19.3
50°-60°	580.4	14.6
60°-70°	356.6	8.9
70°-80°	190.0	4.8
80°-90°	60.6	1.5
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°	1244.7	31.2
0°-40°	2029.4	50.9
0°-60°	3377.1	84.8
0°-90°	3984.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3984.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1598	1598	1598	1598	1598	
5°	1592	1594	1590	1596	1598	151
15°	1541	1543	1537	1543	1543	435
25°	1433	1431	1427	1429	1431	660
35°	1266	1264	1256	1250	1248	792
45°	1038	1032	1004	971	963	798
55°	737	700	627	592	582	660
65°	415	381	350	322	313	413
75°	177	179	181	175	171	190
85°	39	51	63	59	55	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1597.8	1597.8	1597.8	1597.8	1597.8
2.5°	1596.0	1597.8	1591.8	1599.9	1601.7
5°	1591.8	1593.9	1590.0	1596.0	1597.8
7.5°	1586.1	1586.1	1582.1	1587.9	1590.0
10°	1574.3	1574.3	1570.4	1576.2	1578.2
12.5°	1558.6	1558.6	1556.6	1560.5	1562.5
15°	1540.9	1542.7	1537.0	1542.7	1542.7
17.5°	1519.2	1517.4	1515.3	1519.2	1521.3
20°	1493.6	1493.6	1487.9	1491.8	1493.6
22.5°	1464.1	1464.1	1462.3	1464.1	1462.3
25°	1432.8	1430.7	1426.8	1428.8	1430.7
27.5°	1395.4	1395.4	1391.5	1391.5	1389.4
30°	1358.1	1356.0	1350.2	1346.3	1348.2
32.5°	1312.9	1310.8	1305.0	1301.1	1303.0
35°	1265.6	1263.8	1255.9	1250.0	1248.1
37.5°	1218.6	1212.6	1202.7	1194.9	1187.0
40°	1159.6	1153.6	1143.9	1126.2	1124.1
42.5°	1100.6	1094.8	1078.9	1057.4	1051.5
45°	1037.6	1031.9	1004.2	970.8	962.9
47.5°	970.8	961.1	917.8	876.5	860.8
50°	896.3	878.6	827.4	774.4	756.6
52.5°	823.5	792.1	725.3	678.0	660.5
55°	737.0	699.7	627.0	591.6	581.6
57.5°	660.5	609.3	550.3	515.0	507.2
60°	571.9	524.7	477.7	446.1	434.3
62.5°	491.3	450.0	410.8	383.2	369.5
65°	414.7	381.3	349.9	322.3	312.6
67.5°	340.0	322.3	296.7	275.2	269.3
70°	277.1	267.2	249.7	239.8	231.9
72.5°	220.2	224.1	212.3	208.4	202.4
75°	176.8	178.9	180.7	175.0	171.0
77.5°	133.7	143.4	151.2	147.3	143.4
80°	100.3	110.0	123.8	118.0	118.0
82.5°	68.7	80.7	92.4	88.5	86.5
85°	39.4	51.2	62.9	59.0	55.1
87.5°	15.7	25.6	27.4	27.4	25.6
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	16.0	17.5	16.3	17.8	18.1	14.7	16.2	15.0	16.5	16.9
	3H	17.2	18.6	17.6	18.9	19.3	15.9	17.3	16.3	17.6	18.0
	4H	17.6	18.9	18.0	19.3	19.6	16.5	17.8	16.9	18.1	18.5
	6H	17.9	19.1	18.3	19.5	19.9	17.0	18.2	17.4	18.6	18.9
	8H	18.0	19.1	18.4	19.5	19.9	17.2	18.3	17.6	18.7	19.1
	12H	18.0	19.1	18.5	19.5	19.9	17.3	18.4	17.7	18.8	19.2
4H	2H	16.3	17.6	16.7	17.9	18.3	15.2	16.5	15.6	16.9	17.2
	3H	17.7	18.8	18.1	19.2	19.6	16.7	17.8	17.1	18.2	18.6
	4H	18.3	19.3	18.7	19.7	20.1	17.4	18.4	17.8	18.8	19.2
	6H	18.7	19.6	19.2	20.0	20.5	18.0	18.9	18.5	19.3	19.8
	8H	18.8	19.6	19.3	20.1	20.5	18.3	19.1	18.7	19.5	20.0
	12H	18.9	19.6	19.4	20.1	20.6	18.5	19.2	19.0	19.7	20.1
8H	4H	18.5	19.3	18.9	19.7	20.2	17.7	18.5	18.1	18.9	19.4
	6H	19.0	19.7	19.5	20.2	20.7	18.5	19.1	19.0	19.6	20.1
	8H	19.2	19.8	19.8	20.4	20.8	18.8	19.4	19.3	19.9	20.4
	12H	19.4	19.9	19.9	20.4	21.0	19.1	19.6	19.6	20.1	20.7
12H	4H	18.5	19.2	19.0	19.7	20.2	17.7	18.4	18.2	18.9	19.4
	6H	19.1	19.7	19.6	20.2	20.7	18.6	19.2	19.1	19.6	20.2
	8H	19.4	19.9	19.9	20.4	20.9	19.0	19.5	19.5	20.0	20.5

(END OF REPORT)