

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: P1471741

Luminaire Tested: 22PTR-45S-PW1-L835-UNV-STD-B

Issue Date: 6/22/2026

Test Information

Test Method: LM-79-2019
Report Number: P1471741
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737743)
Test Lab: INNOVATION CENTER
Issue Date: 6/22/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22PTR-45S-PW1-L835-UNV-STD-B
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PW1 Lens Black Reces:
Frame
Light Source: -
Ballast/Driver: -

Summary

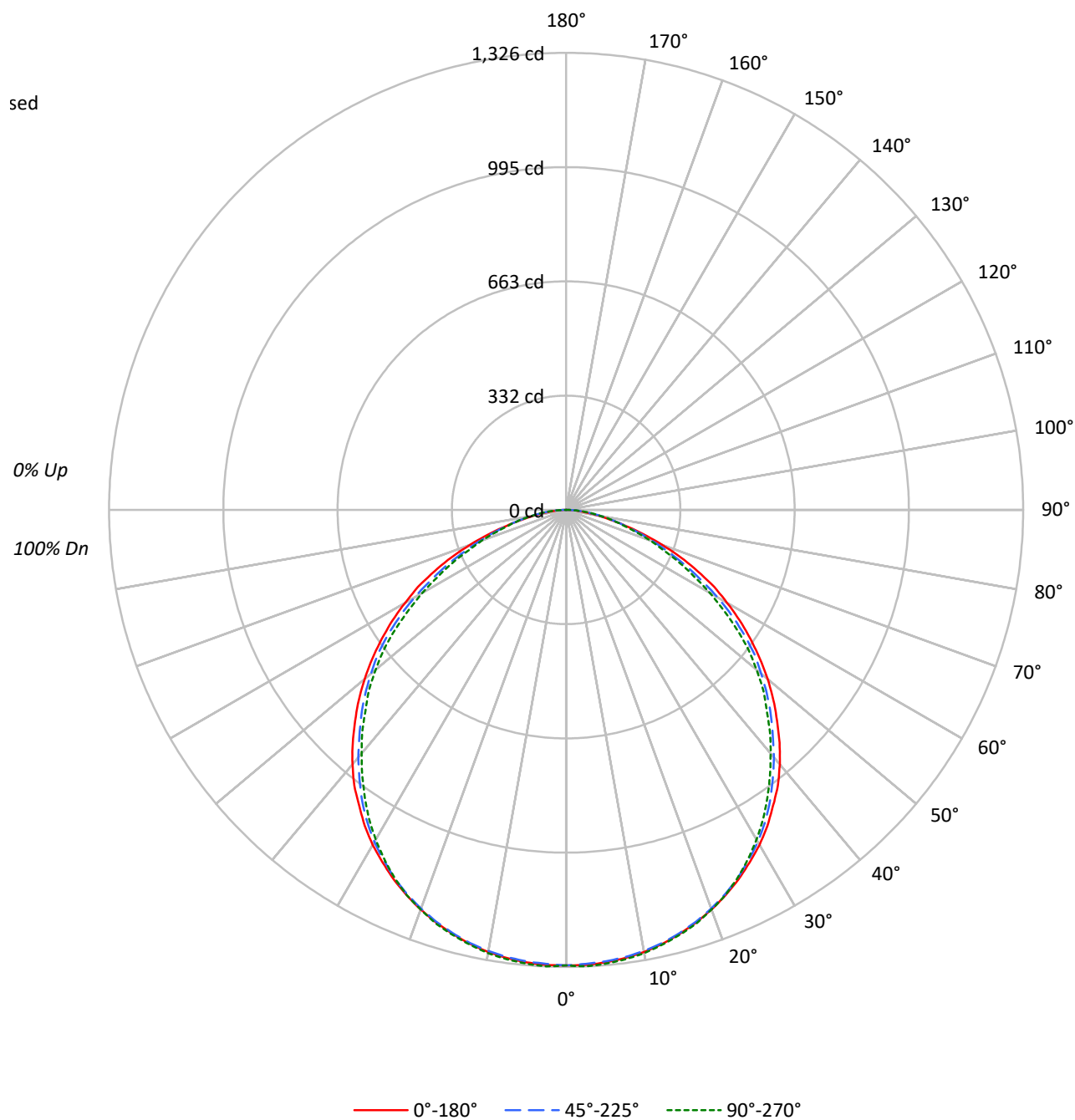
Lumens per Lamp: N/A
Luminaire Lumens: 3507.8 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	109	105	101	97	107	103	99	95	98	95	92		94	92	90		85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		71
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		61
4	84	72	63	57	81	71	63	57	68	61	56		66	60	55		52
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		45
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		35
8	62	48	40	34	60	48	40	34	46	39	34		45	38	34		31
9	58	44	36	31	56	44	36	31	43	35	30		41	35	30		28
10	54	41	33	28	53	40	33	28	39	32	28		38	32	28		26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3557	3557	3557
5°	3560	3552	3571
10°	3558	3551	3568
15°	3548	3542	3555
20°	3533	3525	3533
25°	3513	3499	3496
30°	3487	3456	3432
35°	3440	3388	3345
40°	3387	3295	3243
45°	3294	3196	3131
50°	3194	3090	3018
55°	3061	2958	2840
60°	2902	2731	2588
65°	2684	2439	2318
70°	2327	2123	2043
75°	1858	1817	1768
80°	1412	1578	1578
85°	1044	1346	1346

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3294 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.4	3.6
10°-20°	359.5	10.2
20°-30°	543.4	15.5
30°-40°	645.2	18.4
40°-50°	650.1	18.5
50°-60°	561.9	16.0
60°-70°	384.0	10.9
70°-80°	189.4	5.4
80°-90°	49.0	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°	1028.3	29.3
0°-40°	1673.5	47.7
0°-60°	2885.5	82.3
0°-90°	3507.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3507.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1322	1322	1322	1322	1322	
5°	1318	1318	1315	1320	1322	125
15°	1273	1275	1271	1276	1276	359
25°	1183	1182	1178	1179	1178	545
35°	1047	1044	1031	1022	1018	655
45°	866	856	840	830	823	668
55°	652	650	630	612	605	583
65°	422	406	383	366	364	416
75°	179	177	175	175	170	195
85°	34	40	44	44	44	41
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1321.8	1321.8	1321.8	1321.8	1321.8
2.5°	1321.5	1321.8	1318.4	1324.3	1325.7
5°	1317.9	1318.4	1315.0	1320.4	1321.8
7.5°	1311.7	1312.6	1308.6	1314.0	1315.0
10°	1302.2	1302.8	1299.4	1304.7	1305.8
12.5°	1289.6	1289.9	1287.1	1291.9	1291.9
15°	1273.4	1274.8	1271.4	1275.9	1276.2
17.5°	1255.2	1255.8	1252.4	1257.2	1258.3
20°	1233.7	1233.7	1230.9	1234.8	1233.7
22.5°	1209.7	1209.7	1206.3	1208.3	1209.1
25°	1183.3	1182.3	1178.4	1179.4	1177.5
27.5°	1152.9	1152.9	1146.0	1146.0	1142.6
30°	1122.1	1119.6	1112.3	1107.9	1104.5
32.5°	1086.7	1083.3	1074.1	1066.2	1063.7
35°	1047.2	1043.6	1031.4	1022.1	1018.2
37.5°	1008.9	1001.1	984.9	975.6	971.2
40°	964.3	954.5	937.9	925.1	923.1
42.5°	916.4	908.6	887.0	877.6	875.3
45°	865.5	856.1	839.9	830.1	822.8
47.5°	815.5	808.5	790.0	778.3	775.8
50°	763.0	757.1	738.1	725.4	721.0
52.5°	708.7	704.8	688.6	672.4	667.0
55°	652.4	650.5	630.4	611.7	605.3
57.5°	597.1	594.6	569.5	548.0	542.1
60°	539.3	532.0	507.4	487.3	480.9
62.5°	484.4	468.8	442.3	426.6	419.3
65°	421.6	406.5	383.0	366.3	364.0
67.5°	360.0	341.9	323.7	313.4	305.6
70°	295.8	283.5	269.8	261.1	259.7
72.5°	236.0	227.3	220.3	215.0	210.5
75°	178.7	177.3	174.8	174.8	170.0
77.5°	131.3	134.7	136.7	136.1	137.2
80°	91.1	97.9	101.8	102.3	101.8
82.5°	57.8	65.7	72.1	73.0	74.0
85°	33.8	39.7	43.6	44.5	43.6
87.5°	15.1	19.0	20.1	21.0	20.1
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	16.1	17.7	16.5	18.0	18.3	15.5	17.1	15.9	17.4	17.7
	3H	17.6	19.0	17.9	19.3	19.7	16.9	18.3	17.3	18.7	19.0
	4H	18.0	19.4	18.4	19.7	20.1	17.4	18.7	17.8	19.1	19.4
	6H	18.3	19.5	18.7	19.9	20.3	17.7	19.0	18.1	19.3	19.7
	8H	18.3	19.5	18.7	19.9	20.3	17.8	19.0	18.3	19.4	19.8
	12H	18.3	19.5	18.8	19.9	20.3	17.9	19.1	18.3	19.4	19.9
4H	2H	16.6	17.9	16.9	18.3	18.6	16.1	17.4	16.5	17.8	18.1
	3H	18.2	19.3	18.6	19.7	20.1	17.6	18.8	18.1	19.2	19.6
	4H	18.8	19.8	19.2	20.2	20.6	18.2	19.3	18.7	19.7	20.1
	6H	19.1	20.0	19.6	20.4	20.9	18.7	19.6	19.2	20.0	20.5
	8H	19.2	20.0	19.7	20.5	20.9	18.9	19.7	19.3	20.1	20.6
	12H	19.3	20.0	19.7	20.5	21.0	19.0	19.7	19.5	20.2	20.7
8H	4H	18.9	19.8	19.4	20.2	20.7	18.5	19.3	18.9	19.7	20.2
	6H	19.4	20.1	19.9	20.6	21.0	19.1	19.7	19.5	20.2	20.7
	8H	19.5	20.2	20.0	20.7	21.1	19.3	19.9	19.8	20.4	20.9
	12H	19.6	20.2	20.2	20.7	21.2	19.5	20.0	20.0	20.5	21.1
12H	4H	19.0	19.7	19.4	20.2	20.6	18.5	19.2	19.0	19.7	20.2
	6H	19.4	20.1	20.0	20.5	21.1	19.1	19.7	19.6	20.2	20.7
	8H	19.6	20.2	20.1	20.6	21.2	19.4	19.9	19.9	20.4	21.0

(END OF REPORT)