

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: P1471733

Luminaire Tested: 22PTR-45S-PL1-L835-UNV-STD-B

Issue Date: 6/22/2026

Test Information

Test Method: LM-79-2019
Report Number: P1471733
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: 22PTR-45S-PL1-L835-UNV-STD-B
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PL1 Lens Black Recess
Frame
Light Source: -
Ballast/Driver: -

Summary

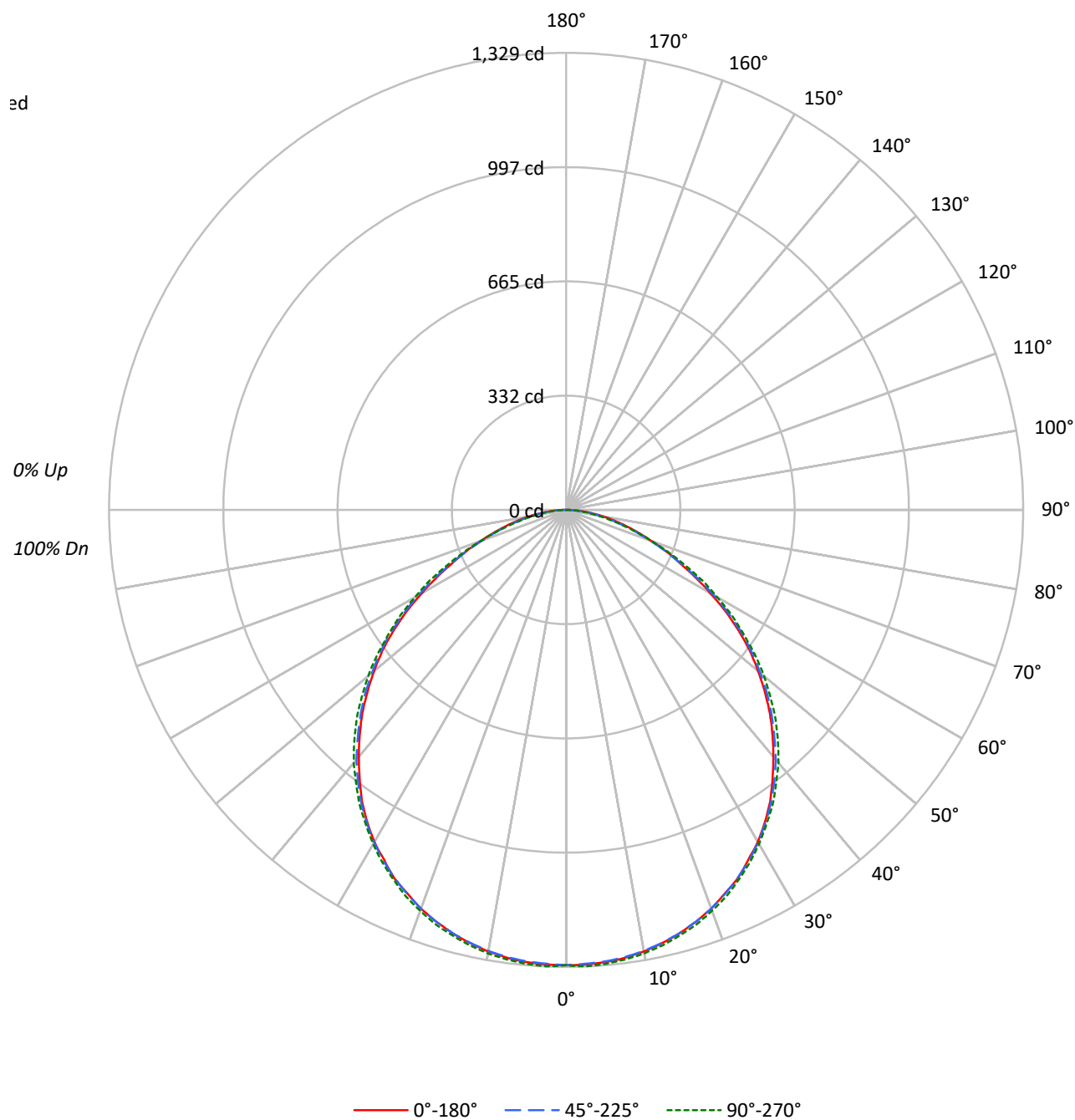
Lumens per Lamp: N/A
Luminaire Lumens: 3490.6 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	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	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	87	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	74	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	63	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	55	55	52
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	48	48	46
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	42	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	37	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	34	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	30	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3563	3563	3563
5°	3566	3560	3579
10°	3562	3558	3578
15°	3551	3550	3568
20°	3533	3533	3553
25°	3510	3505	3524
30°	3465	3470	3487
35°	3399	3412	3439
40°	3294	3332	3374
45°	3191	3217	3279
50°	3050	3083	3144
55°	2873	2919	2953
60°	2606	2661	2728
65°	2315	2339	2434
70°	2069	2027	2077
75°	1866	1759	1724
80°	1697	1574	1398
85°	1436	1306	1124

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3279 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.6	3.6
10°-20°	360.3	10.3
20°-30°	545.0	15.6
30°-40°	649.6	18.6
40°-50°	653.2	18.7
50°-60°	554.3	15.9
60°-70°	369.1	10.6
70°-80°	184.3	5.3
80°-90°	49.3	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°	1030.8	29.5
0°-40°	1680.4	48.1
0°-60°	2887.9	82.7
0°-90°	3490.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3490.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1324	1324	1324	1324	1324	
5°	1320	1321	1318	1324	1325	125
15°	1275	1276	1274	1280	1281	360
25°	1182	1182	1180	1186	1187	543
35°	1035	1036	1039	1046	1047	645
45°	838	840	845	857	862	645
55°	612	617	622	628	630	546
65°	364	366	367	373	382	364
75°	180	177	169	165	166	193
85°	46	46	42	40	36	54
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1324.2	1324.2	1324.2	1324.2	1324.2
2.5°	1323.2	1324.2	1320.7	1327.1	1328.7
5°	1320.3	1320.7	1317.8	1323.7	1325.1
7.5°	1313.9	1314.4	1311.4	1317.8	1318.7
10°	1303.6	1304.6	1302.1	1308.0	1309.4
12.5°	1290.4	1291.8	1289.3	1295.7	1296.8
15°	1274.7	1276.1	1274.1	1279.5	1280.6
17.5°	1255.4	1256.5	1255.4	1260.4	1263.3
20°	1233.8	1233.8	1233.8	1238.3	1240.8
22.5°	1206.9	1209.4	1208.4	1214.2	1216.7
25°	1182.0	1182.0	1180.4	1185.9	1186.8
27.5°	1147.0	1151.0	1150.6	1155.4	1156.5
30°	1115.1	1116.2	1116.7	1120.1	1122.1
32.5°	1076.4	1077.3	1078.9	1083.7	1084.3
35°	1034.7	1035.8	1038.6	1045.9	1047.0
37.5°	986.2	991.6	994.1	1001.9	1002.8
40°	937.6	940.9	948.4	956.6	960.6
42.5°	888.0	891.9	896.4	907.6	911.2
45°	838.4	839.9	845.4	856.6	861.6
47.5°	783.5	788.0	792.8	802.6	805.6
50°	728.6	733.4	736.5	745.2	751.1
52.5°	673.2	677.6	681.0	686.4	692.2
55°	612.4	616.7	622.2	628.1	629.5
57.5°	550.5	555.3	558.9	565.1	571.6
60°	484.2	489.7	494.5	500.4	506.8
62.5°	422.5	424.8	429.8	439.6	448.9
65°	363.5	366.5	367.4	373.0	382.2
67.5°	314.5	314.5	310.0	312.0	322.3
70°	263.0	261.0	257.6	255.6	264.0
72.5°	221.2	218.7	211.4	208.0	212.5
75°	179.5	177.0	169.2	165.3	165.8
77.5°	144.2	140.3	133.9	127.1	125.7
80°	109.5	107.9	101.6	95.2	90.2
82.5°	77.6	74.2	70.6	66.7	62.8
85°	46.5	45.6	42.3	39.8	36.4
87.5°	19.1	19.1	18.2	17.1	16.2
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	15.6	17.2	16.0	17.5	17.8	15.8	17.4	16.1	17.7	18.0
	3H	17.0	18.4	17.4	18.8	19.1	17.1	18.5	17.5	18.9	19.2
	4H	17.5	18.9	17.9	19.2	19.6	17.5	18.9	17.9	19.2	19.6
	6H	17.9	19.1	18.3	19.5	19.9	17.8	19.1	18.2	19.4	19.8
	8H	18.0	19.2	18.4	19.6	20.0	17.9	19.1	18.3	19.5	19.9
	12H	18.1	19.2	18.5	19.6	20.0	17.9	19.1	18.4	19.5	19.9
4H	2H	16.1	17.5	16.5	17.8	18.2	16.2	17.6	16.6	17.9	18.3
	3H	17.7	18.8	18.1	19.2	19.6	17.8	18.9	18.2	19.3	19.7
	4H	18.3	19.3	18.8	19.7	20.2	18.3	19.3	18.7	19.7	20.2
	6H	18.8	19.7	19.3	20.2	20.6	18.7	19.6	19.1	20.0	20.5
	8H	19.0	19.8	19.5	20.3	20.7	18.8	19.6	19.3	20.1	20.5
	12H	19.1	19.9	19.6	20.3	20.8	18.9	19.6	19.4	20.1	20.6
8H	4H	18.5	19.4	19.0	19.8	20.3	18.5	19.3	19.0	19.8	20.2
	6H	19.2	19.8	19.6	20.3	20.8	19.0	19.7	19.5	20.2	20.6
	8H	19.4	20.0	19.9	20.5	21.0	19.2	19.8	19.7	20.3	20.8
	12H	19.6	20.1	20.1	20.6	21.2	19.3	19.9	19.8	20.3	20.9
12H	4H	18.5	19.3	19.0	19.8	20.2	18.5	19.3	19.0	19.7	20.2
	6H	19.2	19.8	19.7	20.3	20.8	19.0	19.7	19.6	20.1	20.7
	8H	19.5	20.0	20.0	20.5	21.1	19.3	19.8	19.8	20.3	20.9

(END OF REPORT)