

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: P1471727

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

Issue Date: 6/22/2026

Test Information

Test Method: LM-79-2019
Report Number: P1471727
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2310-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 6/22/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22PTR-45S-L835-UNV-STD-B
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND Frosted Lens Black Recessed Frame
Light Source: -
Ballast/Driver: -

Summary

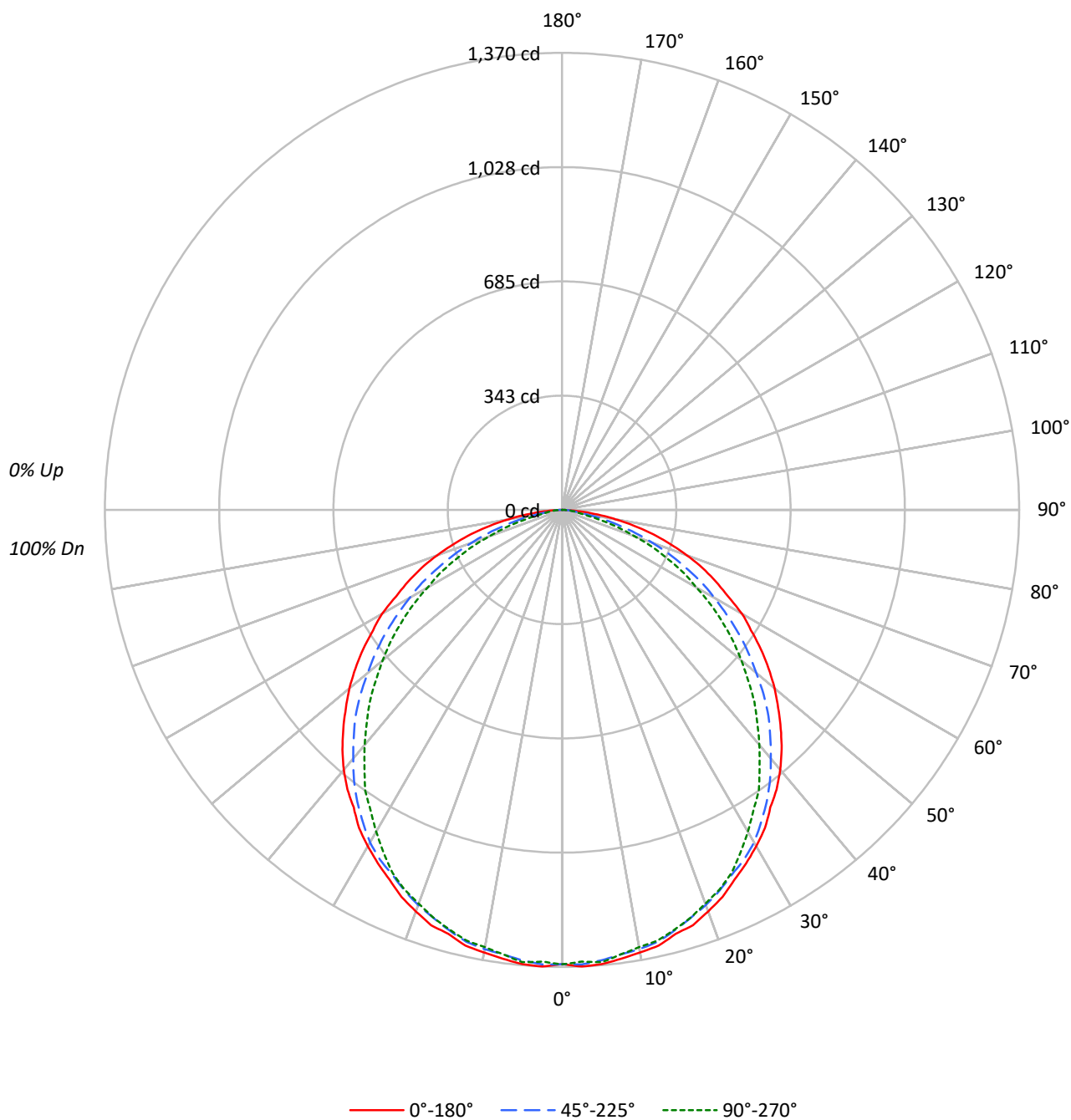
Lumens per Lamp: N/A
Luminaire Lumens: 3627.7 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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					10
RW	70	50	30	10	70	50	30	10	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	100		
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52		
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40		
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35		
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31		
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3665	3665	3665
5°	3692	3661	3677
10°	3681	3653	3637
15°	3665	3636	3629
20°	3668	3610	3596
25°	3632	3579	3567
30°	3617	3576	3461
35°	3576	3512	3376
40°	3573	3419	3231
45°	3528	3331	3102
50°	3481	3182	2934
55°	3414	3033	2755
60°	3353	2837	2502
65°	3238	2603	2236
70°	3134	2266	1825
75°	2943	1788	1257
80°	2552	1082	755
85°	1704	775	726

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3528 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.1	3.6
10°-20°	369.4	10.2
20°-30°	558.0	15.4
30°-40°	663.5	18.3
40°-50°	672.9	18.5
50°-60°	584.3	16.1
60°-70°	414.8	11.4
70°-80°	198.2	5.5
80°-90°	37.6	1.0
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°	1056.5	29.1
0°-40°	1720.0	47.4
0°-60°	2977.1	82.1
0°-90°	3627.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3627.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1362	1362	1362	1362	1362	
5°	1367	1362	1355	1359	1361	130
15°	1316	1319	1305	1304	1303	373
25°	1223	1222	1205	1210	1201	565
35°	1089	1087	1069	1033	1028	684
45°	927	919	875	829	815	715
55°	728	706	646	608	587	650
65°	509	470	409	365	351	504
75°	283	231	172	136	121	297
85°	55	29	25	24	24	70
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1361.9	1361.9	1361.9	1361.9	1361.9
2.5°	1370.0	1365.2	1363.5	1369.2	1355.4
5°	1366.8	1361.9	1355.4	1358.7	1361.1
7.5°	1357.0	1353.0	1344.1	1351.4	1344.1
10°	1347.3	1343.3	1336.8	1339.2	1331.1
12.5°	1337.6	1327.8	1326.2	1327.8	1322.2
15°	1315.7	1318.9	1305.1	1303.5	1302.7
17.5°	1305.1	1297.0	1282.4	1283.2	1281.6
20°	1280.8	1271.1	1260.5	1258.9	1255.7
22.5°	1255.7	1244.3	1234.6	1239.4	1232.1
25°	1223.2	1221.6	1205.4	1210.2	1201.3
27.5°	1194.8	1189.1	1181.8	1171.3	1158.3
30°	1164.0	1158.3	1151.0	1123.4	1113.7
32.5°	1131.5	1125.1	1110.5	1078.0	1067.5
35°	1088.6	1086.9	1069.1	1032.6	1027.7
37.5°	1056.1	1038.3	1023.7	986.4	972.6
40°	1017.2	1007.4	973.4	937.7	919.8
42.5°	974.2	962.8	923.9	885.8	866.3
45°	927.1	919.0	875.2	829.0	815.2
47.5°	878.5	871.2	819.3	774.6	756.8
50°	831.4	822.5	760.0	717.1	700.8
52.5°	780.3	765.7	704.1	661.9	646.5
55°	727.6	705.7	646.5	608.4	587.3
57.5°	671.6	651.3	585.6	545.9	528.9
60°	623.0	594.6	527.2	486.7	464.8
62.5°	560.5	536.2	472.1	424.2	413.7
65°	508.6	470.5	408.8	365.0	351.2
67.5°	455.9	411.3	348.8	304.2	296.9
70°	398.3	352.0	288.0	244.2	232.0
72.5°	339.9	294.4	232.0	185.8	178.5
75°	283.1	231.2	172.0	136.3	120.9
77.5°	221.4	174.4	120.9	83.5	73.8
80°	164.7	117.6	69.8	49.5	48.7
82.5°	107.9	68.1	37.3	38.1	36.5
85°	55.2	29.2	25.1	24.3	23.5
87.5°	10.5	11.4	12.2	12.2	12.2
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	16.7	18.3	17.0	18.6	18.9	15.3	16.9	15.7	17.2	17.6
	3H	18.5	19.9	18.9	20.3	20.6	16.6	18.1	17.0	18.4	18.7
	4H	19.2	20.5	19.6	20.9	21.3	16.9	18.3	17.3	18.6	19.0
	6H	19.7	20.9	20.1	21.3	21.7	17.0	18.2	17.4	18.6	19.0
	8H	19.8	21.0	20.2	21.4	21.8	17.0	18.2	17.4	18.6	19.0
	12H	19.9	21.0	20.3	21.4	21.8	17.0	18.1	17.4	18.5	18.9
4H	2H	17.1	18.4	17.5	18.8	19.2	16.0	17.4	16.4	17.7	18.1
	3H	19.1	20.2	19.5	20.6	21.0	17.4	18.6	17.9	19.0	19.4
	4H	19.9	20.9	20.3	21.3	21.8	17.8	18.8	18.2	19.2	19.7
	6H	20.5	21.4	20.9	21.8	22.3	17.9	18.8	18.4	19.2	19.7
	8H	20.6	21.5	21.1	21.9	22.4	17.9	18.8	18.4	19.2	19.7
	12H	20.7	21.5	21.2	22.0	22.4	18.0	18.7	18.4	19.2	19.6
8H	4H	20.0	20.8	20.4	21.3	21.7	18.1	18.9	18.5	19.3	19.8
	6H	20.6	21.3	21.1	21.8	22.3	18.2	18.9	18.7	19.4	19.9
	8H	20.8	21.4	21.3	21.9	22.4	18.3	18.9	18.8	19.4	19.9
	12H	21.0	21.5	21.5	22.0	22.5	18.3	18.9	18.8	19.3	19.9
12H	4H	20.0	20.7	20.4	21.2	21.7	18.1	18.8	18.6	19.3	19.8
	6H	20.6	21.2	21.1	21.7	22.2	18.3	18.9	18.8	19.3	19.9
	8H	20.8	21.4	21.3	21.9	22.4	18.3	18.9	18.8	19.3	19.9

(END OF REPORT)