

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: P1471731

Luminaire Tested: 22PTR-45S-PC3-L835-UNV-STD-B

Issue Date: 6/22/2026

Test Information

Test Method: LM-79-2019
Report Number: P1471731
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: 22PTR-45S-PC3-L835-UNV-STD-B
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PC3 Lens Black Recess Frame
Light Source: -
Ballast/Driver: -

Summary

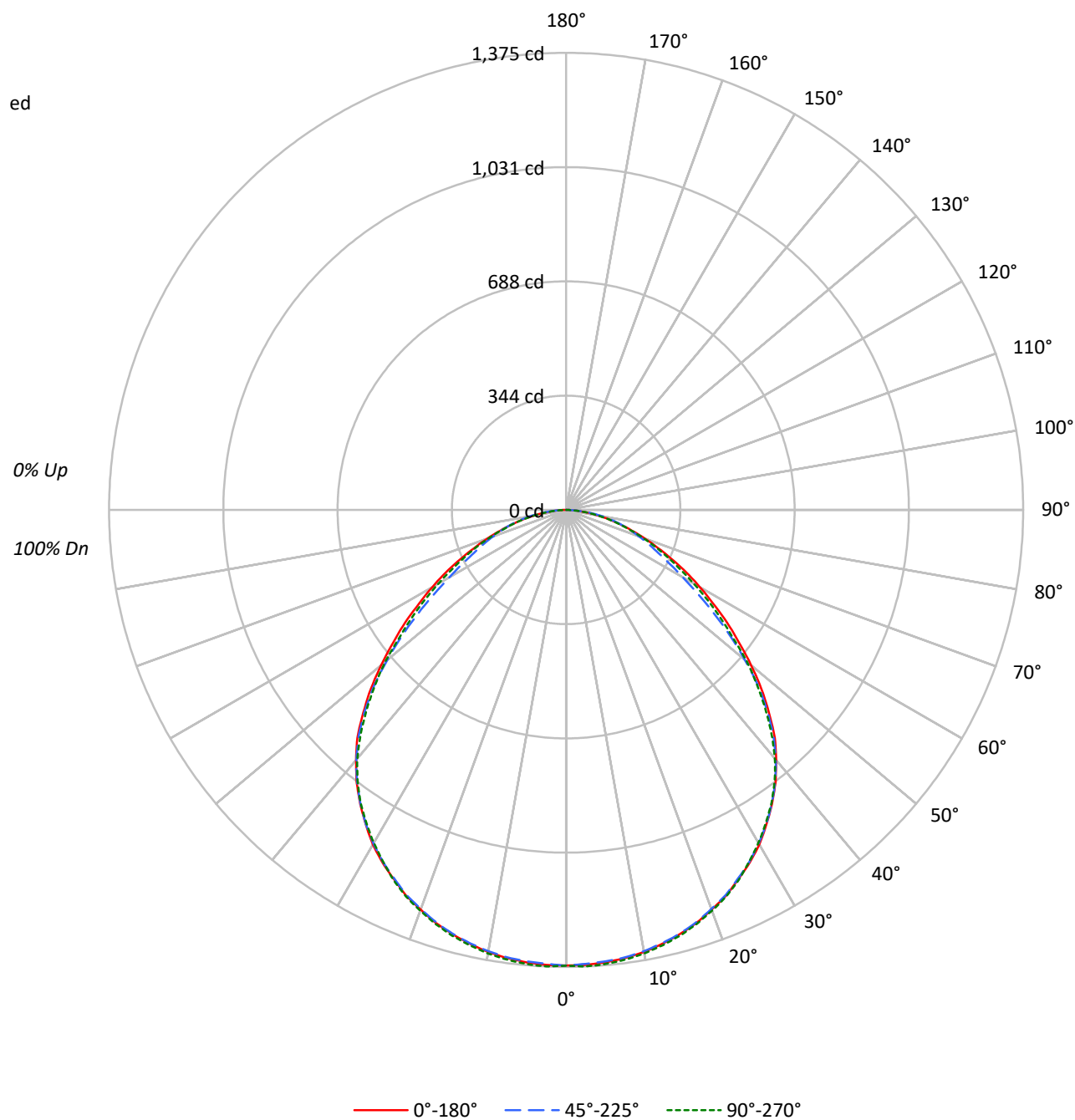
Lumens per Lamp: N/A
Luminaire Lumens: 3456.2 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3689	3689	3689
5°	3690	3683	3705
10°	3690	3683	3703
15°	3681	3677	3694
20°	3665	3659	3675
25°	3640	3634	3648
30°	3613	3600	3594
35°	3547	3544	3537
40°	3453	3448	3433
45°	3284	3260	3226
50°	3040	2938	2971
55°	2774	2549	2664
60°	2502	2175	2386
65°	2236	1945	2145
70°	1983	1840	1928
75°	1754	1784	1719
80°	1512	1703	1505
85°	1133	1346	1133

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 3291 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.0	3.8
10°-20°	373.2	10.8
20°-30°	565.1	16.3
30°-40°	673.7	19.5
40°-50°	658.3	19.0
50°-60°	503.4	14.6
60°-70°	323.2	9.4
70°-80°	179.8	5.2
80°-90°	49.6	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°	1068.3	30.9
0°-40°	1742.0	50.4
0°-60°	2903.6	84.0
0°-90°	3456.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3456.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1371	1371	1371	1371	1371	
5°	1366	1367	1364	1370	1371	130
15°	1321	1322	1320	1324	1326	373
25°	1226	1227	1224	1228	1229	565
35°	1080	1081	1079	1078	1077	675
45°	863	865	857	855	848	664
55°	591	571	543	550	568	529
65°	351	324	306	316	337	350
75°	169	170	172	169	165	180
85°	37	43	44	42	37	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1370.9	1370.9	1370.9	1370.9	1370.9
2.5°	1370.0	1370.6	1367.0	1372.9	1374.8
5°	1366.1	1367.0	1363.6	1370.0	1371.4
7.5°	1360.2	1361.1	1357.7	1364.1	1364.7
10°	1350.4	1351.0	1347.9	1354.3	1355.2
12.5°	1337.2	1338.7	1335.3	1341.2	1341.5
15°	1321.4	1322.5	1320.0	1324.4	1325.8
17.5°	1302.9	1303.4	1300.9	1305.7	1306.2
20°	1279.7	1279.7	1277.7	1283.3	1283.3
22.5°	1256.2	1254.8	1254.2	1256.2	1259.2
25°	1225.9	1227.3	1223.9	1227.8	1228.7
27.5°	1196.5	1196.5	1193.5	1195.4	1192.9
30°	1162.6	1160.7	1158.7	1159.1	1156.8
32.5°	1121.8	1121.8	1121.0	1121.0	1117.9
35°	1079.8	1080.7	1078.7	1078.2	1076.8
37.5°	1034.6	1036.2	1032.6	1031.7	1030.6
40°	983.1	983.1	981.6	979.7	977.2
42.5°	929.6	929.6	923.4	918.4	915.0
45°	863.0	864.9	856.6	854.6	847.8
47.5°	796.7	795.3	784.1	782.6	778.7
50°	726.2	717.8	701.8	706.0	709.6
52.5°	655.6	645.3	621.8	626.6	632.5
55°	591.3	570.8	543.4	550.1	567.8
57.5°	524.1	496.7	469.3	482.1	504.0
60°	464.8	434.0	404.1	417.8	443.3
62.5°	408.0	375.2	351.1	364.3	385.9
65°	351.1	324.1	305.5	315.7	336.9
67.5°	299.1	281.0	268.3	273.1	290.2
70°	252.1	240.7	233.9	235.3	245.1
72.5°	207.4	204.5	202.0	202.0	202.9
75°	168.7	170.1	171.6	169.2	165.3
77.5°	132.9	137.7	141.3	136.3	131.5
80°	97.6	105.5	109.9	104.4	97.1
82.5°	66.6	75.5	77.0	73.6	65.2
85°	36.7	43.1	43.6	42.2	36.7
87.5°	13.7	16.2	17.6	16.2	14.3
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	15.0	16.6	15.4	16.9	17.2	14.8	16.3	15.1	16.7	17.0
	3H	16.4	17.8	16.8	18.2	18.5	16.2	17.6	16.6	18.0	18.3
	4H	17.0	18.3	17.4	18.6	19.0	16.8	18.1	17.2	18.4	18.8
	6H	17.4	18.6	17.8	19.0	19.3	17.2	18.4	17.6	18.8	19.2
	8H	17.5	18.7	17.9	19.0	19.4	17.3	18.5	17.7	18.9	19.3
	12H	17.6	18.7	18.0	19.0	19.5	17.4	18.5	17.8	18.9	19.3
4H	2H	15.4	16.7	15.8	17.1	17.4	15.2	16.5	15.6	16.9	17.2
	3H	17.1	18.2	17.5	18.6	19.0	16.9	18.0	17.3	18.4	18.8
	4H	17.8	18.7	18.2	19.2	19.6	17.6	18.6	18.0	19.0	19.4
	6H	18.3	19.2	18.8	19.6	20.1	18.2	19.0	18.6	19.5	19.9
	8H	18.5	19.3	18.9	19.7	20.2	18.3	19.1	18.8	19.6	20.0
	12H	18.6	19.3	19.1	19.8	20.2	18.4	19.2	18.9	19.6	20.1
8H	4H	18.0	18.8	18.5	19.3	19.7	17.9	18.7	18.3	19.1	19.6
	6H	18.7	19.4	19.2	19.9	20.3	18.6	19.2	19.1	19.7	20.2
	8H	18.9	19.5	19.5	20.1	20.5	18.8	19.4	19.3	19.9	20.4
	12H	19.1	19.6	19.6	20.1	20.7	19.0	19.5	19.5	20.0	20.6
12H	4H	18.1	18.8	18.5	19.3	19.7	17.9	18.6	18.4	19.1	19.6
	6H	18.8	19.4	19.3	19.8	20.4	18.6	19.2	19.2	19.7	20.2
	8H	19.1	19.6	19.6	20.1	20.6	18.9	19.5	19.4	20.0	20.5

(END OF REPORT)