Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P1471739

Luminaire Tested: 22PTR-45S-PR1-L835-UNV-STD-B

Issue Date: 6/22/2026

Test Information

Test Method:	LM-79-2019
Report Number:	P1471739
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737735)
Test Lab:	INNOVATION CENTER
Issue Date:	6/22/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	CORELITE
Catalog Number:	22PTR-45S-PR1-L835-UNV-STD-B
Description:	4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PR1 Lens Black Recess Frame
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3459.7 lumens
Efficiency:	N/A
Efficacy:	95.8 lumens/watt
Spacing Criteria (0/90/45):	1.26 / 1.26 / 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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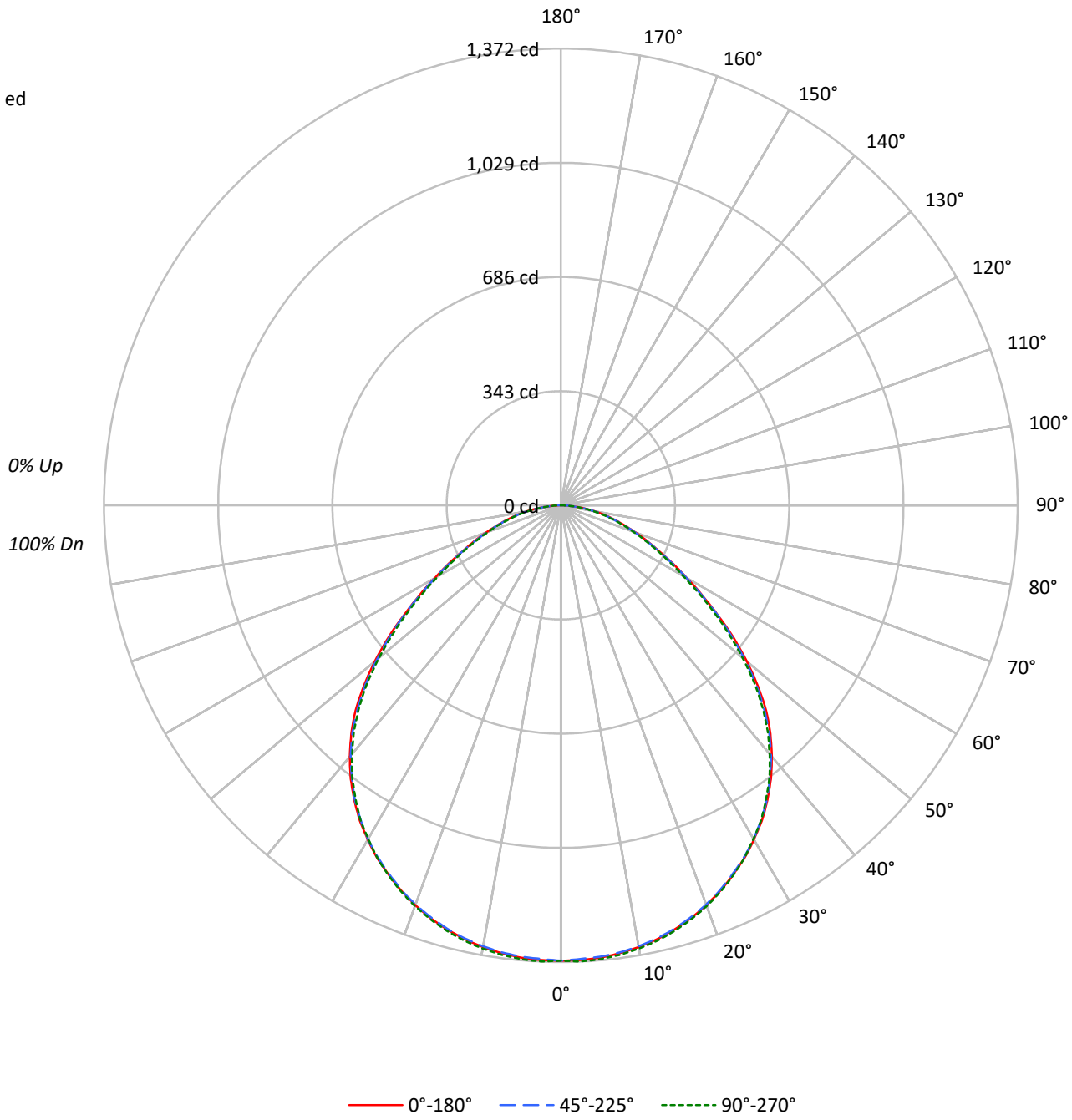
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			20
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41
7	67	54	45	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3681	3681	3681
5°	3685	3677	3697
10°	3681	3675	3695
15°	3675	3669	3687
20°	3659	3655	3669
25°	3635	3627	3640
30°	3603	3599	3594
35°	3553	3545	3531
40°	3464	3450	3426
45°	3319	3282	3258
50°	3054	3020	2982
55°	2703	2691	2639
60°	2349	2341	2277
65°	2070	2058	2017
70°	1878	1851	1814
75°	1739	1699	1667
80°	1587	1565	1512
85°	1254	1244	1195

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3319 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.8	3.8
10°-20°	372.5	10.8
20°-30°	564.3	16.3
30°-40°	673.6	19.5
40°-50°	662.4	19.1
50°-60°	512.0	14.8
60°-70°	322.8	9.3
70°-80°	174.6	5.0
80°-90°	47.7	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°	1066.5	30.8
0°-40°	1740.1	50.3
0°-60°	2914.5	84.2
0°-90°	3459.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3459.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1368	1368	1368	1368	1368	
5°	1364	1365	1361	1367	1368	130
15°	1319	1319	1317	1321	1323	372
25°	1224	1225	1221	1225	1226	564
35°	1082	1082	1079	1078	1075	675
45°	872	869	862	856	856	668
55°	576	581	574	564	562	517
65°	325	326	323	318	317	327
75°	167	165	163	164	160	178
85°	41	41	40	41	39	48
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1368.0	1368.0	1368.0	1368.0	*1368.0*
2.5°	*1367.5*	*1368.0*	*1364.1*	*1370.5*	*1371.9*
5°	1364.1	1364.6	1361.1	1366.9	*1368.5*
7.5°	1357.1	1358.2	1354.8	1360.7	*1362.1*
10°	1347.3	1348.4	1345.0	1350.9	*1352.3*
12.5°	1335.2	1335.6	1332.7	1338.1	*1339.5*
15°	1319.0	1319.4	1317.1	1321.3	*1323.3*
17.5°	1300.3	1300.8	1297.5	1302.8	*1303.7*
20°	1277.9	1278.2	1276.3	1280.7	*1281.2*
22.5°	1252.7	1253.8	1250.8	1254.7	*1255.2*
25°	1224.4	1225.3	1221.4	1225.3	*1225.8*
27.5°	1194.5	1194.8	1191.5	1194.5	*1194.0*
30°	1159.6	1162.6	1158.1	1157.1	*1156.7*
32.5°	1123.4	1123.8	1119.5	1118.4	*1120.4*
35°	1081.7	1082.1	1079.2	1077.8	*1074.8*
37.5°	1036.1	1036.1	1030.6	1029.7	*1029.2*
40°	986.1	985.5	982.1	978.8	*975.2*
42.5°	931.5	932.6	925.7	919.8	*918.9*
45°	872.2	868.8	862.4	855.7	*856.2*
47.5°	802.2	803.1	794.4	788.8	*787.4*
50°	729.5	729.5	721.3	715.4	*712.4*
52.5°	653.6	654.2	646.3	638.5	*636.9*
55°	576.1	580.9	573.6	564.4	*562.4*
57.5°	503.6	507.5	500.6	490.8	*490.3*
60°	436.5	436.8	434.9	425.6	*423.1*
62.5°	379.1	376.6	375.5	370.7	*367.7*
65°	325.1	325.7	323.2	317.6	*316.7*
67.5°	281.5	280.9	276.5	273.1	*271.1*
70°	238.7	237.3	235.3	232.5	*230.5*
72.5°	200.6	200.6	199.0	198.1	*194.7*
75°	167.3	165.3	163.4	164.3	*160.3*
77.5°	135.4	133.4	131.8	129.9	*129.0*
80°	102.4	100.5	101.0	98.0	*97.6*
82.5°	71.1	71.1	70.2	67.7	*68.2*
85°	40.6	41.2	40.3	40.6	*38.7*
87.5°	14.8	15.1	16.2	15.1	*15.1*
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	15.1	16.6	15.4	16.9	17.2	14.8	16.4	15.2	16.7	17.0
	3H	16.4	17.8	16.8	18.1	18.5	16.2	17.6	16.6	17.9	18.3
	4H	16.9	18.2	17.3	18.6	19.0	16.7	18.0	17.1	18.4	18.7
	6H	17.3	18.5	17.7	18.9	19.3	17.1	18.3	17.5	18.7	19.1
	8H	17.5	18.6	17.9	19.0	19.4	17.2	18.4	17.7	18.8	19.2
	12H	17.5	18.7	18.0	19.0	19.5	17.3	18.4	17.7	18.8	19.2
4H	2H	15.5	16.8	15.9	17.2	17.5	15.3	16.6	15.7	17.0	17.4
	3H	17.1	18.2	17.5	18.6	19.0	16.9	18.0	17.3	18.4	18.8
	4H	17.7	18.7	18.2	19.1	19.6	17.6	18.5	18.0	19.0	19.4
	6H	18.3	19.1	18.7	19.6	20.0	18.1	18.9	18.5	19.4	19.8
	8H	18.4	19.3	18.9	19.7	20.2	18.3	19.1	18.7	19.5	20.0
	12H	18.6	19.3	19.0	19.8	20.2	18.4	19.1	18.8	19.6	20.0
8H	4H	18.0	18.8	18.4	19.2	19.7	17.8	18.6	18.3	19.1	19.5
	6H	18.6	19.3	19.1	19.8	20.3	18.5	19.1	19.0	19.6	20.1
	8H	18.9	19.5	19.4	20.0	20.5	18.7	19.3	19.2	19.8	20.3
	12H	19.1	19.6	19.6	20.1	20.6	18.9	19.4	19.4	19.9	20.5
12H	4H	18.0	18.7	18.5	19.2	19.7	17.8	18.6	18.3	19.0	19.5
	6H	18.7	19.3	19.2	19.7	20.3	18.5	19.1	19.0	19.6	20.1
	8H	19.0	19.5	19.5	20.0	20.5	18.8	19.3	19.3	19.8	20.4

(END OF REPORT)