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: P1471728

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

Issue Date: 6/22/2026

Test Information

Test Method:	LM-79-2019
Report Number:	P1471728
	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-W
Description:	4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND Frosted Lens White Recessed Frame
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4202.8 lumens
Efficiency:	N/A
Efficacy:	116.4 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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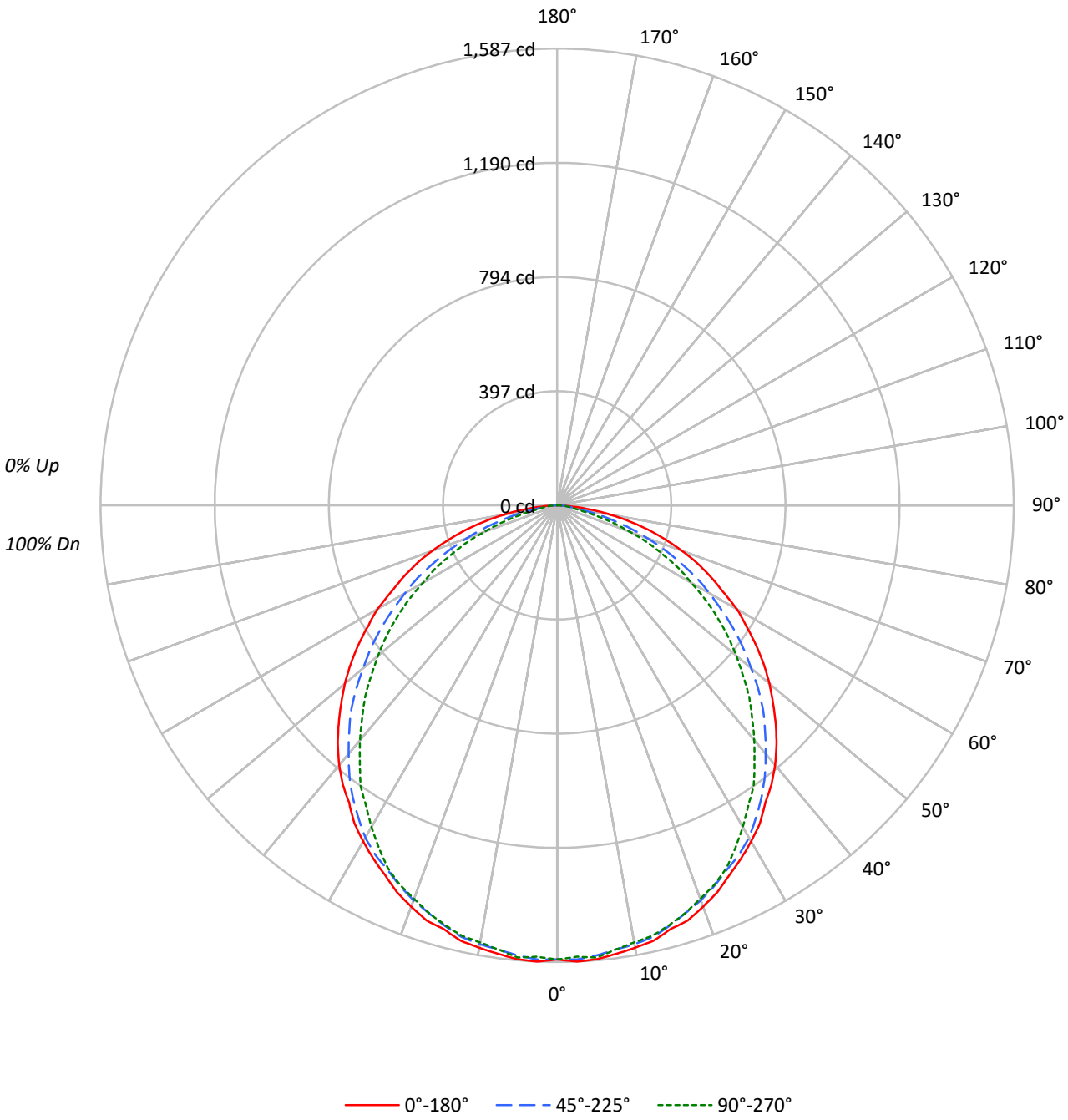
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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	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°	4246	4246	4246
5°	4277	4242	4260
10°	4265	4232	4214
15°	4247	4212	4204
20°	4249	4182	4166
25°	4208	4146	4132
30°	4190	4144	4009
35°	4143	4069	3912
40°	4140	3961	3744
45°	4088	3859	3594
50°	4032	3686	3399
55°	3955	3514	3192
60°	3884	3287	2898
65°	3752	3016	2591
70°	3630	2625	2115
75°	3410	2071	1456
80°	2957	1252	874
85°	1973	898	843

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4088 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.6	3.6
10°-20°	428.0	10.2
20°-30°	646.5	15.4
30°-40°	768.6	18.3
40°-50°	779.5	18.5
50°-60°	676.9	16.1
60°-70°	480.5	11.4
70°-80°	229.6	5.5
80°-90°	43.5	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°	1224.0	29.1
0°-40°	1992.6	47.4
0°-60°	3449.1	82.1
0°-90°	4202.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4202.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1578	1578	1578	1578	1578	
5°	1584	1578	1570	1574	1577	150
15°	1524	1528	1512	1510	1509	432
25°	1417	1415	1396	1402	1392	654
35°	1261	1259	1239	1196	1191	792
45°	1074	1065	1014	960	944	829
55°	843	818	749	705	680	753
65°	589	545	474	423	407	584
75°	328	268	199	158	140	344
85°	64	34	29	28	27	81
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*1577.8*	1577.8	1577.8	1577.8	1577.8
2.5°	*1587.2*	*1581.6*	*1579.7*	*1586.3*	*1570.3*
5°	*1583.5*	1577.8	1570.3	1574.1	1576.9
7.5°	*1572.2*	1567.5	1557.1	1565.6	1557.1
10°	*1560.9*	1556.2	1548.7	1551.5	1542.1
12.5°	*1549.6*	1538.4	1536.5	1538.4	1531.8
15°	*1524.3*	1528.0	1512.0	1510.2	1509.2
17.5°	*1512.0*	1502.6	1485.7	1486.7	1484.8
20°	*1483.8*	1472.6	1460.4	1458.5	1454.7
22.5°	*1454.7*	1441.6	1430.3	1435.9	1427.5
25°	*1417.1*	1415.2	1396.5	1402.1	1391.8
27.5°	*1384.2*	1377.7	1369.2	1357.0	1341.9
30°	*1348.5*	1341.9	1333.5	1301.5	1290.3
32.5°	*1310.9*	1303.4	1286.5	1248.9	1236.7
35°	*1261.1*	1259.3	1238.6	1196.3	1190.7
37.5°	*1223.5*	1202.9	1186.0	1142.7	1126.7
40°	*1178.4*	1167.2	1127.7	1086.3	1065.7
42.5°	*1128.6*	1115.5	1070.4	1026.2	1003.6
45°	*1074.1*	1064.7	1014.0	960.4	944.4
47.5°	*1017.7*	1009.3	949.1	897.5	876.8
50°	*963.2*	952.9	880.5	830.7	811.9
52.5°	*904.0*	887.1	815.7	766.8	749.0
55°	*842.9*	817.6	749.0	704.8	680.4
57.5°	*778.1*	754.6	678.5	632.4	612.7
60°	*721.7*	688.8	610.8	563.8	538.5
62.5°	*649.4*	621.2	546.9	491.5	479.3
65°	*589.2*	545.0	473.6	422.9	406.9
67.5°	*528.1*	476.4	404.1	352.4	343.9
70°	*461.4*	407.8	333.6	282.9	268.8
72.5°	*393.8*	341.1	268.8	215.2	206.7
75°	*328.0*	267.8	199.2	157.9	140.0
77.5°	*256.5*	202.0	140.0	96.8	85.5
80°	*190.8*	136.3	80.8	57.3	56.4
82.5°	*125.0*	78.9	43.2	44.2	42.3
85°	*63.9*	33.8	29.1	28.2	27.3
87.5°	*12.2*	13.2	14.1	14.1	14.1
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	17.2	18.8	17.5	19.1	19.4	15.8	17.4	16.2	17.8	18.1
	3H	19.0	20.4	19.4	20.8	21.1	17.1	18.6	17.5	18.9	19.2
	4H	19.7	21.0	20.1	21.4	21.8	17.4	18.8	17.8	19.1	19.5
	6H	20.2	21.4	20.6	21.8	22.2	17.5	18.7	17.9	19.1	19.5
	8H	20.3	21.5	20.7	21.9	22.3	17.5	18.7	17.9	19.1	19.5
	12H	20.4	21.5	20.8	21.9	22.3	17.5	18.6	17.9	19.0	19.5
4H	2H	17.6	18.9	18.0	19.3	19.7	16.5	17.9	16.9	18.2	18.6
	3H	19.6	20.7	20.0	21.1	21.5	18.0	19.1	18.4	19.5	19.9
	4H	20.4	21.4	20.8	21.8	22.3	18.3	19.3	18.7	19.7	20.2
	6H	21.0	21.9	21.4	22.3	22.8	18.4	19.3	18.9	19.8	20.2
	8H	21.2	22.0	21.6	22.4	22.9	18.5	19.3	18.9	19.7	20.2
	12H	21.2	22.0	21.7	22.5	22.9	18.5	19.2	19.0	19.7	20.2
8H	4H	20.5	21.3	21.0	21.8	22.2	18.6	19.4	19.0	19.8	20.3
	6H	21.1	21.8	21.6	22.3	22.8	18.7	19.4	19.2	19.9	20.4
	8H	21.3	21.9	21.8	22.5	22.9	18.8	19.4	19.3	19.9	20.4
	12H	21.5	22.0	22.0	22.5	23.1	18.8	19.4	19.3	19.9	20.4
12H	4H	20.5	21.2	21.0	21.7	22.2	18.6	19.3	19.1	19.8	20.3
	6H	21.1	21.7	21.6	22.2	22.7	18.8	19.4	19.3	19.8	20.4
	8H	21.3	21.9	21.8	22.4	22.9	18.8	19.4	19.3	19.9	20.4

(END OF REPORT)