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: P1471734

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

Issue Date: 6/22/2026

Test Information

Test Method:	LM-79-2019
Report Number:	P1471734
	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-W
Description:	4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PL1 Lens White Recess Frame
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4044.0 lumens
Efficiency:	N/A
Efficacy:	112.0 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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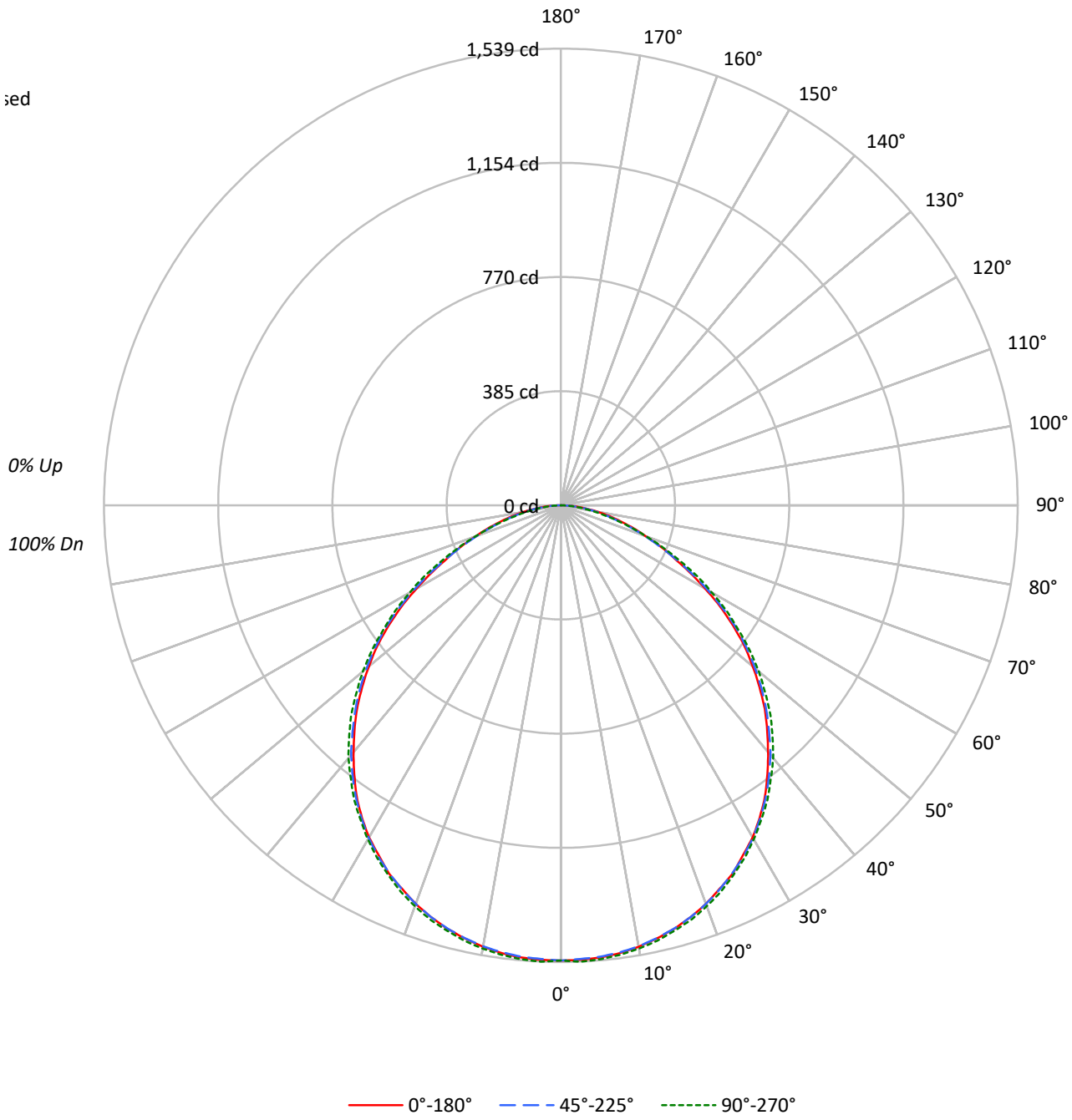
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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	94	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	52
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	46
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4128	4128	4128
5°	4132	4124	4147
10°	4127	4122	4145
15°	4114	4112	4133
20°	4094	4094	4117
25°	4066	4060	4082
30°	4014	4020	4039
35°	3938	3953	3985
40°	3816	3860	3909
45°	3697	3727	3799
50°	3534	3572	3643
55°	3329	3382	3422
60°	3019	3083	3160
65°	2681	2711	2819
70°	2397	2348	2407
75°	2163	2038	1997
80°	1965	1824	1619
85°	1664	1510	1300

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
Vertical Angle: 45°
Luminance: 3799 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.5	3.6
10°-20°	417.4	10.3
20°-30°	631.3	15.6
30°-40°	752.6	18.6
40°-50°	756.7	18.7
50°-60°	642.2	15.9
60°-70°	427.6	10.6
70°-80°	213.5	5.3
80°-90°	57.1	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°	1194.3	29.5
0°-40°	1946.8	48.1
0°-60°	3345.8	82.7
0°-90°	4044.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4044.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1534	1534	1534	1534	1534	
5°	1530	1530	1527	1534	1535	145
15°	1477	1478	1476	1482	1484	417
25°	1369	1369	1368	1374	1375	630
35°	1199	1200	1203	1212	1213	748
45°	971	973	979	992	998	747
55°	710	714	721	728	729	632
65°	421	425	426	432	443	422
75°	208	205	196	192	192	223
85°	54	53	49	46	42	62
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1534.2	1534.2	1534.2	1534.2	*1534.2*
2.5°	*1532.9*	*1534.2*	*1530.0*	*1537.5*	*1539.3*
5°	1529.6	1530.0	1526.7	1533.6	*1535.2*
7.5°	1522.2	1522.8	1519.3	1526.7	*1527.8*
10°	1510.2	1511.5	1508.6	1515.4	*1517.0*
12.5°	1494.9	1496.6	1493.7	1501.1	*1502.4*
15°	1476.8	1478.4	1476.1	1482.3	*1483.6*
17.5°	1454.5	1455.7	1454.5	1460.2	*1463.5*
20°	1429.5	1429.5	1429.5	1434.6	*1437.5*
22.5°	1398.3	1401.2	1399.9	1406.7	*1409.6*
25°	1369.4	1369.4	1367.5	1373.9	*1374.9*
27.5°	1328.9	1333.4	1333.0	1338.6	*1339.8*
30°	1291.9	1293.1	1293.8	1297.7	*1300.0*
32.5°	1247.1	1248.1	1250.0	1255.6	*1256.2*
35°	1198.8	1200.0	1203.3	1211.8	*1213.0*
37.5°	1142.6	1148.8	1151.7	1160.8	*1161.8*
40°	1086.2	1090.1	1098.8	1108.3	*1112.8*
42.5°	1028.8	1033.3	1038.5	1051.5	*1055.6*
45°	971.4	973.0	979.4	992.4	*998.2*
47.5°	907.7	912.9	918.5	929.8	*933.4*
50°	844.1	849.7	853.2	863.3	*870.2*
52.5°	779.9	785.1	789.0	795.2	*802.0*
55°	709.5	714.4	720.8	727.6	*729.3*
57.5°	637.8	643.4	647.5	654.7	*662.2*
60°	561.0	567.4	572.9	579.8	*587.2*
62.5°	489.5	492.2	498.0	509.3	*520.1*
65°	421.1	424.6	425.7	432.1	*442.8*
67.5°	364.3	364.3	359.2	361.4	*373.4*
70°	304.6	302.4	298.4	296.2	*305.9*
72.5°	256.3	253.4	245.0	241.0	*246.2*
75°	208.0	205.1	196.0	191.5	*192.1*
77.5°	167.1	162.5	155.1	147.3	*145.6*
80°	126.8	125.0	117.7	110.3	*104.5*
82.5°	89.8	85.9	81.8	77.2	*72.7*
85°	53.9	52.9	48.9	46.1	*42.1*
87.5°	22.1	22.1	21.1	19.8	*18.8*
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	16.1	17.7	16.5	18.0	18.4	16.3	17.9	16.6	18.2	18.5
	3H	17.5	18.9	17.9	19.3	19.6	17.6	19.0	18.0	19.4	19.7
	4H	18.0	19.4	18.4	19.7	20.1	18.0	19.4	18.4	19.7	20.1
	6H	18.4	19.6	18.8	20.0	20.4	18.3	19.6	18.7	19.9	20.3
	8H	18.5	19.7	19.0	20.1	20.5	18.4	19.6	18.8	20.0	20.4
	12H	18.6	19.7	19.0	20.1	20.6	18.4	19.6	18.9	20.0	20.4
4H	2H	16.6	18.0	17.0	18.3	18.7	16.7	18.1	17.1	18.4	18.8
	3H	18.2	19.3	18.6	19.7	20.1	18.3	19.4	18.7	19.8	20.2
	4H	18.8	19.8	19.3	20.3	20.7	18.8	19.8	19.2	20.2	20.7
	6H	19.3	20.2	19.8	20.7	21.1	19.2	20.1	19.7	20.5	21.0
	8H	19.5	20.3	20.0	20.8	21.2	19.3	20.1	19.8	20.6	21.0
	12H	19.6	20.4	20.1	20.9	21.3	19.4	20.1	19.9	20.6	21.1
8H	4H	19.0	19.9	19.5	20.3	20.8	19.0	19.8	19.5	20.3	20.8
	6H	19.7	20.3	20.2	20.8	21.3	19.5	20.2	20.0	20.7	21.2
	8H	19.9	20.5	20.4	21.0	21.5	19.7	20.3	20.2	20.8	21.3
	12H	20.1	20.6	20.6	21.1	21.7	19.8	20.4	20.3	20.9	21.4
12H	4H	19.1	19.8	19.5	20.3	20.7	19.0	19.8	19.5	20.3	20.7
	6H	19.7	20.3	20.2	20.8	21.3	19.6	20.2	20.1	20.6	21.2
	8H	20.0	20.5	20.5	21.0	21.6	19.8	20.3	20.3	20.8	21.4

(END OF REPORT)