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: P1471816

Luminaire Tested: 24PTR-45S-PLG-L835-UNV-STD-W

Issue Date: 6/22/2026

Test Information

Test Method:	LM-79-2019
Report Number:	P1471816
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2409-224-3)
Test Lab:	INNOVATION CENTER
Issue Date:	6/22/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	CORELITE
Catalog Number:	24PTR-45S-PLG-L835-UNV-STD-W
Description:	4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PLG Lens White Reces
	Frame
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3566.3 lumens
Efficiency:	N/A
Efficacy:	100.2 lumens/watt
Spacing Criteria (0/90/45):	1.22 / 1.22 / 1.26
Luminous Opening:	Rectangular (W 2' x L: 4' x H: 0')
CIE Type:	Direct
Input Watts (W):	35.6
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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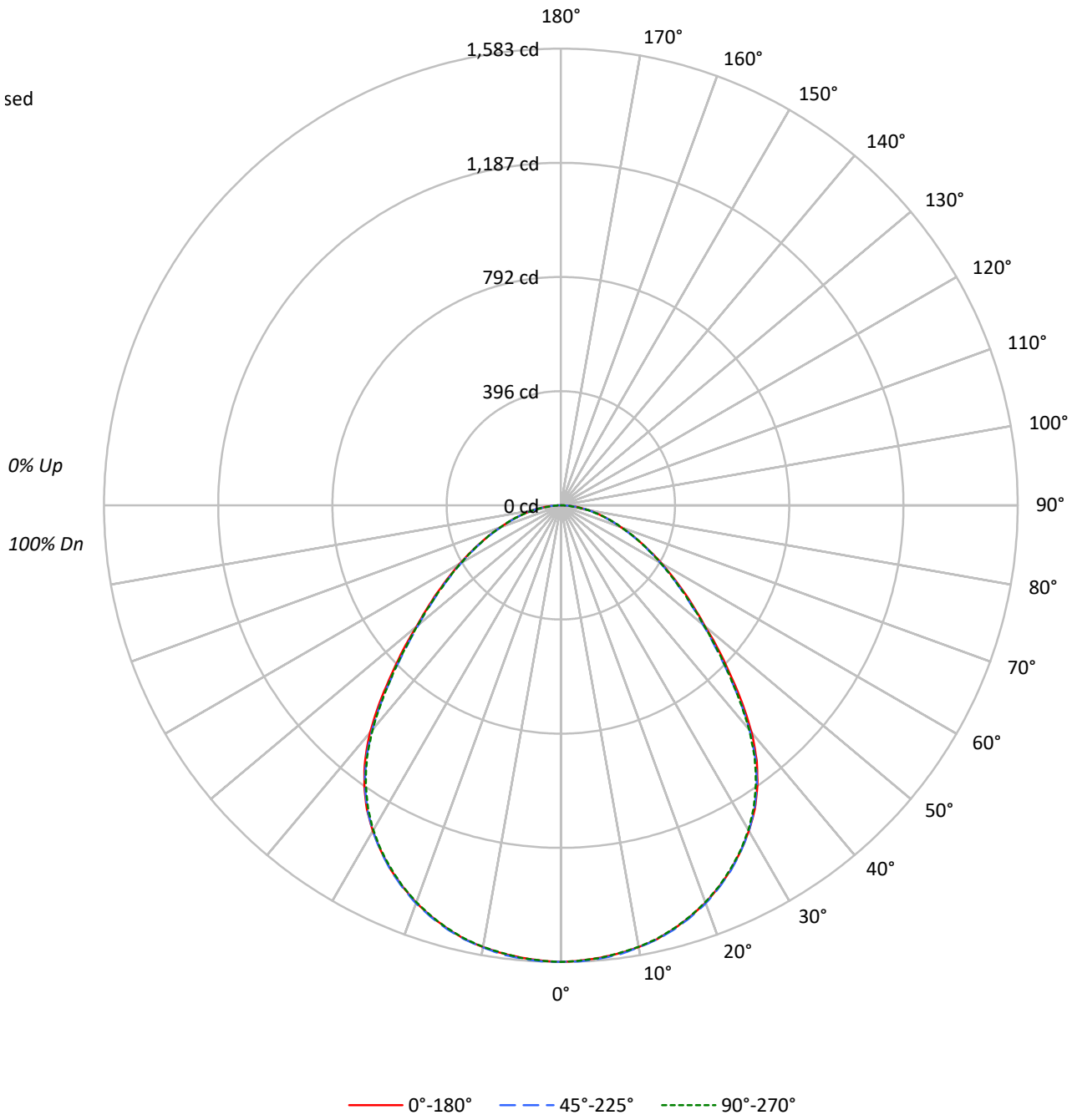
Luminous Intensity Polar Plot



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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	69	66	64
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49
6	74	61	53	47	72	60	52	47	58	51	46	57	51	46	55	50	45	43
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39
8	64	51	43	38	62	51	43	38	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2130	2130	2130
5°	2125	2130	2127
10°	2124	2126	2122
15°	2115	2119	2114
20°	2099	2102	2096
25°	2070	2071	2064
30°	2024	2024	2019
35°	1950	1945	1935
40°	1807	1788	1782
45°	1580	1554	1560
50°	1364	1347	1354
55°	1212	1194	1196
60°	1085	1070	1070
65°	973	966	969
70°	875	866	875
75°	811	800	811
80°	757	748	722
85°	642	642	573

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 1580 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.8	4.2
10°-20°	428.8	12.0
20°-30°	641.6	18.0
30°-40°	735.1	20.6
40°-50°	635.7	17.8
50°-60°	460.1	12.9
60°-70°	303.0	8.5
70°-80°	164.9	4.6
80°-90°	47.3	1.3
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°	1220.2	34.2
0°-40°	1955.2	54.8
0°-60°	3051.1	85.6
0°-90°	3566.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3566.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1583	1583	1583	1583	1583	
5°	1574	1577	1577	1577	1575	150
15°	1519	1520	1521	1523	1518	428
25°	1394	1394	1395	1396	1391	641
35°	1187	1186	1184	1183	1178	738
45°	830	828	817	816	820	643
55°	517	514	509	506	510	465
65°	306	308	303	301	304	305
75°	156	156	154	154	156	166
85°	42	42	42	43	37	48
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*1582.7*	*1582.7*	*1582.7*	*1582.7*	*1582.7*
2.5°	*1579.4*	1582.7	1581.6	1582.7	1579.4
5°	*1573.7*	1577.1	1577.1	1577.1	1574.9
7.5°	*1565.9*	1568.1	1569.3	1570.4	1564.8
10°	*1554.7*	1556.9	1555.8	1558.0	1553.5
12.5°	*1540.0*	1540.0	1541.2	1543.4	1538.9
15°	*1518.7*	1519.8	1521.0	1523.2	1517.6
17.5°	*1494.0*	1495.1	1496.2	1497.4	1492.9
20°	*1465.9*	1465.9	1468.2	1469.3	1463.7
22.5°	*1431.1*	1431.1	1433.3	1436.7	1430.0
25°	*1394.0*	1394.0	1395.1	1396.3	1390.6
27.5°	*1350.2*	1350.2	1351.3	1354.7	1348.0
30°	*1303.0*	1301.9	1303.0	1304.2	1299.7
32.5°	*1250.2*	1249.1	1248.0	1249.1	1243.5
35°	*1187.3*	1186.2	1184.0	1182.8	1178.3
37.5°	*1114.3*	1112.1	1107.6	1107.6	1103.1
40°	*1028.9*	1023.3	1017.7	1015.5	1014.3
42.5°	*930.1*	925.6	917.7	916.6	916.6
45°	*830.1*	827.9	816.6	815.5	820.0
47.5°	*740.3*	734.6	724.5	722.3	729.0
50°	*651.5*	652.6	643.7	640.3	647.0
52.5°	*581.9*	579.6	571.8	569.5	575.1
55°	*516.7*	514.5	508.9	505.5	510.0
57.5°	*457.2*	456.1	450.4	449.3	451.6
60°	*403.3*	402.1	397.6	396.5	397.6
62.5°	*352.7*	352.7	348.2	346.0	349.3
65°	*305.5*	307.8	303.3	301.0	304.4
67.5°	*262.9*	265.1	260.6	258.4	262.9
70°	*222.4*	224.7	220.2	217.9	222.4
72.5°	*187.6*	188.7	185.3	184.2	189.8
75°	*156.1*	156.1	153.9	153.9	156.1
77.5°	*126.9*	125.8	124.7	124.7	122.4
80°	*97.7*	96.6	96.6	96.6	93.2
82.5°	*69.6*	67.4	68.5	69.6	64.0
85°	*41.6*	41.6	41.6	42.7	37.1
87.5°	*16.8*	16.8	15.7	16.8	14.6
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	11.9	13.4	12.3	13.7	14.0	11.8	13.3	12.2	13.6	13.9
	3H	13.3	14.7	13.7	15.0	15.4	13.2	14.6	13.6	14.9	15.3
	4H	13.9	15.1	14.3	15.5	15.9	13.8	15.1	14.2	15.4	15.8
	6H	14.3	15.5	14.7	15.8	16.2	14.2	15.4	14.6	15.7	16.1
	8H	14.5	15.6	14.9	16.0	16.4	14.3	15.4	14.8	15.8	16.2
	12H	14.5	15.6	15.0	16.0	16.4	14.4	15.5	14.8	15.9	16.3
4H	2H	12.4	13.6	12.8	14.0	14.4	12.3	13.6	12.7	13.9	14.3
	3H	14.0	15.1	14.4	15.5	15.9	13.9	15.0	14.4	15.4	15.8
	4H	14.7	15.7	15.1	16.1	16.5	14.6	15.6	15.1	16.0	16.4
	6H	15.3	16.1	15.7	16.5	17.0	15.2	16.0	15.6	16.4	16.9
	8H	15.5	16.2	15.9	16.7	17.1	15.4	16.1	15.8	16.6	17.0
	12H	15.6	16.3	16.1	16.8	17.2	15.5	16.2	16.0	16.6	17.1
8H	4H	15.0	15.7	15.4	16.2	16.6	14.9	15.7	15.3	16.1	16.6
	6H	15.6	16.3	16.1	16.8	17.2	15.6	16.2	16.1	16.7	17.2
	8H	15.9	16.5	16.4	17.0	17.5	15.8	16.4	16.3	16.9	17.4
	12H	16.1	16.6	16.6	17.1	17.7	16.0	16.5	16.5	17.0	17.6
12H	4H	15.0	15.7	15.5	16.1	16.6	14.9	15.6	15.4	16.1	16.5
	6H	15.7	16.3	16.2	16.7	17.3	15.6	16.2	16.1	16.7	17.2
	8H	16.0	16.5	16.5	17.0	17.6	15.9	16.4	16.4	16.9	17.5

(END OF REPORT)