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: P1471815

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

Issue Date: 6/22/2026

Test Information

Test Method:	LM-79-2019
Report Number:	P1471815
	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-B
Description:	4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PLG Lens Black Recess Frame
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3986.0 lumens
Efficiency:	N/A
Efficacy:	112.0 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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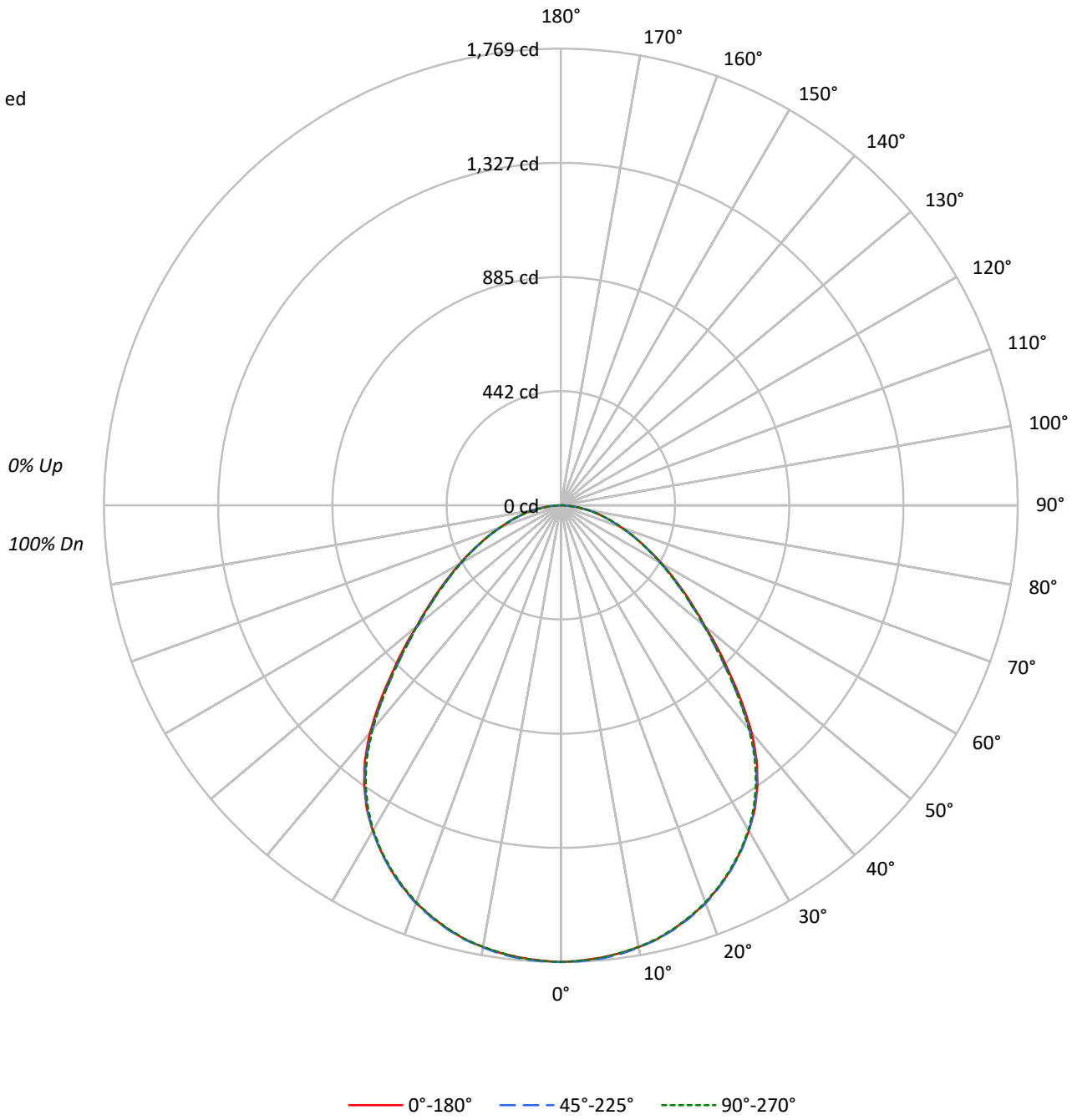
Luminous Intensity Polar Plot



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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°	2380	2380	2380
5°	2376	2381	2377
10°	2374	2376	2372
15°	2364	2368	2363
20°	2346	2350	2342
25°	2313	2315	2307
30°	2263	2263	2257
35°	2180	2174	2163
40°	2020	1998	1991
45°	1765	1737	1744
50°	1524	1506	1514
55°	1355	1334	1337
60°	1213	1196	1196
65°	1087	1079	1083
70°	978	968	978
75°	907	894	907
80°	846	837	807
85°	718	718	639

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 1765 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.5	4.2
10°-20°	479.2	12.0
20°-30°	717.1	18.0
30°-40°	821.5	20.6
40°-50°	710.5	17.8
50°-60°	514.2	12.9
60°-70°	338.7	8.5
70°-80°	184.4	4.6
80°-90°	52.8	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°	1363.7	34.2
0°-40°	2185.3	54.8
0°-60°	3410.0	85.6
0°-90°	3986.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3986.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1769	1769	1769	1769	1769	
5°	1759	1763	1763	1763	1760	167
15°	1697	1699	1700	1702	1696	479
25°	1558	1558	1559	1560	1554	717
35°	1327	1326	1323	1322	1317	824
45°	928	925	913	912	916	718
55°	578	575	569	565	570	520
65°	342	344	339	336	340	341
75°	174	174	172	172	174	186
85°	46	46	46	48	41	54
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*1768.9*	*1768.9*	*1768.9*	*1768.9*	*1768.9*
2.5°	*1765.2*	1768.9	1767.7	1768.9	1765.2
5°	*1758.9*	1762.7	1762.7	1762.7	1760.2
7.5°	*1750.1*	1752.6	1753.9	1755.1	1748.9
10°	*1737.6*	1740.1	1738.8	1741.3	1736.3
12.5°	*1721.2*	1721.2	1722.5	1725.0	1720.0
15°	*1697.4*	1698.6	1699.9	1702.4	1696.1
17.5°	*1669.8*	1671.0	1672.3	1673.5	1668.5
20°	*1638.4*	1638.4	1640.9	1642.1	1635.9
22.5°	*1599.5*	1599.5	1602.0	1605.7	1598.2
25°	*1558.0*	1558.0	1559.3	1560.5	1554.3
27.5°	*1509.1*	1509.1	1510.3	1514.1	1506.5
30°	*1456.3*	1455.1	1456.3	1457.6	1452.6
32.5°	*1397.3*	1396.1	1394.8	1396.1	1389.8
35°	*1327.0*	1325.8	1323.3	1322.0	1317.0
37.5°	*1245.4*	1242.9	1237.9	1237.9	1232.9
40°	*1150.0*	1143.7	1137.4	1134.9	1133.7
42.5°	*1039.5*	1034.5	1025.7	1024.5	1024.5
45°	*927.8*	925.3	912.7	911.5	916.5
47.5°	*827.3*	821.1	809.8	807.3	814.8
50°	*728.2*	729.4	719.4	715.6	723.1
52.5°	*650.3*	647.8	639.0	636.5	642.8
55°	*577.5*	575.0	568.7	565.0	570.0
57.5°	*511.0*	509.7	503.4	502.2	504.7
60°	*450.7*	449.5	444.4	443.2	444.4
62.5°	*394.2*	394.2	389.2	386.7	390.4
65°	*341.5*	344.0	339.0	336.5	340.2
67.5°	*293.8*	296.3	291.3	288.8	293.8
70°	*248.6*	251.1	246.1	243.6	248.6
72.5°	*209.7*	210.9	207.2	205.9	212.2
75°	*174.5*	174.5	172.0	172.0	174.5
77.5°	*141.9*	140.6	139.4	139.4	136.8
80°	*109.2*	108.0	108.0	108.0	104.2
82.5°	*77.8*	75.3	76.6	77.8	71.6
85°	*46.5*	46.5	46.5	47.7	41.4
87.5°	*18.8*	18.8	17.6	18.8	16.3
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	12.3	13.8	12.6	14.1	14.4	12.2	13.7	12.5	14.0	14.3
	3H	13.7	15.1	14.1	15.4	15.8	13.6	15.0	14.0	15.3	15.7
	4H	14.3	15.5	14.7	15.9	16.3	14.2	15.4	14.6	15.8	16.2
	6H	14.7	15.9	15.1	16.2	16.6	14.6	15.8	15.0	16.1	16.5
	8H	14.8	16.0	15.3	16.3	16.7	14.7	15.8	15.1	16.2	16.6
	12H	14.9	16.0	15.4	16.4	16.8	14.8	15.9	15.2	16.2	16.7
4H	2H	12.8	14.0	13.2	14.4	14.8	12.7	13.9	13.1	14.3	14.7
	3H	14.4	15.5	14.8	15.9	16.3	14.3	15.4	14.7	15.8	16.2
	4H	15.1	16.0	15.5	16.5	16.9	15.0	16.0	15.4	16.4	16.8
	6H	15.7	16.5	16.1	16.9	17.4	15.6	16.4	16.0	16.8	17.3
	8H	15.9	16.6	16.3	17.1	17.5	15.7	16.5	16.2	17.0	17.4
	12H	16.0	16.7	16.5	17.2	17.6	15.9	16.6	16.3	17.0	17.5
8H	4H	15.3	16.1	15.8	16.6	17.0	15.3	16.0	15.7	16.5	17.0
	6H	16.0	16.7	16.5	17.2	17.6	15.9	16.6	16.4	17.1	17.6
	8H	16.3	16.9	16.8	17.4	17.9	16.2	16.8	16.7	17.3	17.8
	12H	16.5	17.0	17.0	17.5	18.1	16.4	16.9	16.9	17.4	18.0
12H	4H	15.4	16.1	15.8	16.5	17.0	15.3	16.0	15.8	16.5	16.9
	6H	16.1	16.7	16.6	17.1	17.7	16.0	16.6	16.5	17.0	17.6
	8H	16.4	16.9	16.9	17.4	18.0	16.3	16.8	16.8	17.3	17.9

(END OF REPORT)