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: P1471799

Luminaire Tested: 24PTR-40S-PLG-L835-UNV-STD-B

Issue Date: 6/22/2026

Test Information

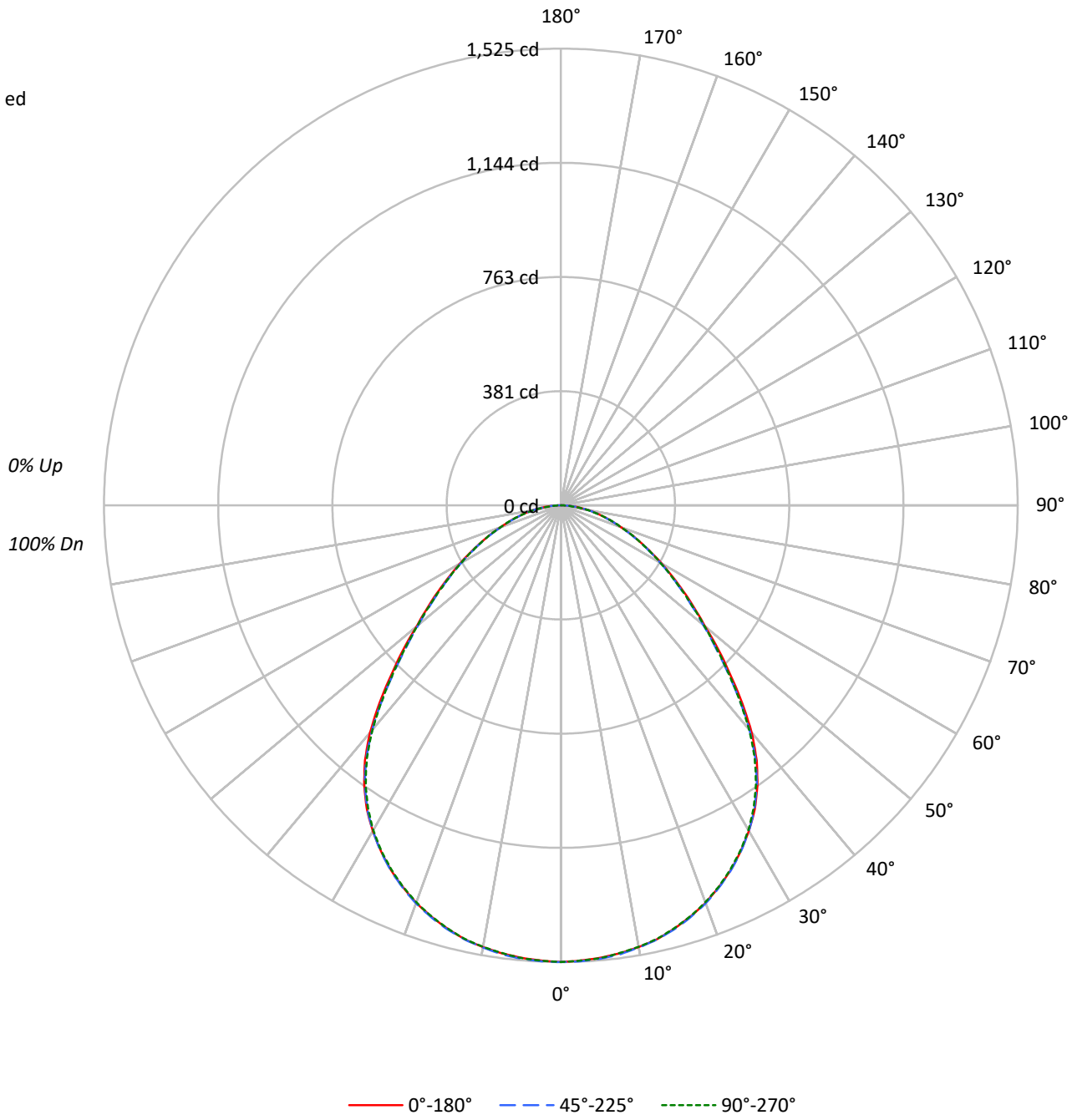
Test Method:	LM-79-2019
Report Number:	P1471799
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2409-224-3)
Test Lab:	INNOVATION CENTER
Issue Date:	6/22/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	CORELITE
Catalog Number:	24PTR-40S-PLG-L835-UNV-STD-B
Description:	4000 LUMEN 2X4 PERCEIVE 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:	3436.3 lumens
Efficiency:	N/A
Efficacy:	113.4 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):	30.3
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

TEST NUMBER: P1471799
CATALOG NUMBER: 24PTR-40S-PLG-L835-UNV-STD-B

Luminous Intensity Polar Plot



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CATALOG NUMBER: 24PTR-40S-PLG-L835-UNV-STD-B

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°	2052	2052	2052
5°	2048	2052	2050
10°	2047	2048	2045
15°	2038	2041	2037
20°	2022	2025	2019
25°	1994	1996	1989
30°	1951	1951	1946
35°	1879	1874	1865
40°	1741	1722	1717
45°	1522	1497	1503
50°	1314	1298	1305
55°	1168	1150	1153
60°	1046	1031	1031
65°	937	930	934
70°	843	834	843
75°	782	771	782
80°	730	721	696
85°	618	618	551

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 1522 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.4	4.2
10°-20°	413.1	12.0
20°-30°	618.2	18.0
30°-40°	708.3	20.6
40°-50°	612.6	17.8
50°-60°	443.3	12.9
60°-70°	292.0	8.5
70°-80°	158.9	4.6
80°-90°	45.5	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°	1175.7	34.2
0°-40°	1884.0	54.8
0°-60°	2939.8	85.6
0°-90°	3436.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3436.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1525	1525	1525	1525	1525	
5°	1516	1520	1520	1520	1518	144
15°	1463	1464	1466	1468	1462	413
25°	1343	1343	1344	1345	1340	618
35°	1144	1143	1141	1140	1135	711
45°	800	798	787	786	790	619
55°	498	496	490	487	491	448
65°	294	297	292	290	293	294
75°	150	150	148	148	150	160
85°	40	40	40	41	36	46
90°	0	0	0	0	0	

TEST NUMBER: P1471799
CATALOG NUMBER: 24PTR-40S-PLG-L835-UNV-STD-B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*1525.0*	*1525.0*	*1525.0*	*1525.0*	*1525.0*
2.5°	*1521.8*	1525.0	1524.0	1525.0	1521.8
5°	*1516.4*	1519.6	1519.6	1519.6	1517.5
7.5°	*1508.8*	1511.0	1512.1	1513.1	1507.7
10°	*1498.0*	1500.1	1499.1	1501.2	1496.9
12.5°	*1483.9*	1483.9	1485.0	1487.2	1482.8
15°	*1463.3*	1464.4	1465.5	1467.7	1462.3
17.5°	*1439.5*	1440.6	1441.7	1442.8	1438.5
20°	*1412.5*	1412.5	1414.6	1415.7	1410.3
22.5°	*1378.9*	1378.9	1381.1	1384.3	1377.8
25°	*1343.2*	1343.2	1344.3	1345.4	1340.0
27.5°	*1301.0*	1301.0	1302.1	1305.3	1298.8
30°	*1255.5*	1254.4	1255.5	1256.6	1252.3
32.5°	*1204.7*	1203.6	1202.5	1203.6	1198.2
35°	*1144.0*	1143.0	1140.8	1139.7	1135.4
37.5°	*1073.7*	1071.5	1067.2	1067.2	1062.9
40°	*991.4*	986.0	980.6	978.4	977.4
42.5°	*896.2*	891.9	884.3	883.2	883.2
45°	*799.9*	797.7	786.9	785.8	790.1
47.5°	*713.3*	707.9	698.1	696.0	702.4
50°	*627.8*	628.8	620.2	616.9	623.4
52.5°	*560.7*	558.5	550.9	548.8	554.2
55°	*497.9*	495.7	490.3	487.1	491.4
57.5°	*440.5*	439.4	434.0	432.9	435.1
60°	*388.6*	387.5	383.2	382.1	383.2
62.5°	*339.9*	339.9	335.5	333.4	336.6
65°	*294.4*	296.6	292.2	290.1	293.3
67.5°	*253.3*	255.4	251.1	248.9	253.3
70°	*214.3*	216.5	212.1	210.0	214.3
72.5°	*180.8*	181.8	178.6	177.5	182.9
75°	*150.4*	150.4	148.3	148.3	150.4
77.5°	*122.3*	121.2	120.1	120.1	118.0
80°	*94.2*	93.1	93.1	93.1	89.8
82.5°	*67.1*	64.9	66.0	67.1	61.7
85°	*40.0*	40.0	40.0	41.1	35.7
87.5°	*16.2*	16.2	15.2	16.2	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	11.8	13.3	12.1	13.6	13.9	11.7	13.2	12.0	13.5	13.8
	3H	13.2	14.6	13.6	14.9	15.2	13.1	14.5	13.5	14.8	15.1
	4H	13.7	15.0	14.1	15.4	15.7	13.7	14.9	14.1	15.3	15.7
	6H	14.2	15.3	14.6	15.7	16.1	14.1	15.2	14.5	15.6	16.0
	8H	14.3	15.4	14.7	15.8	16.2	14.2	15.3	14.6	15.7	16.1
	12H	14.4	15.5	14.8	15.9	16.3	14.3	15.3	14.7	15.7	16.2
4H	2H	12.2	13.5	12.6	13.9	14.2	12.2	13.4	12.6	13.8	14.2
	3H	13.9	15.0	14.3	15.4	15.8	13.8	14.9	14.2	15.3	15.7
	4H	14.6	15.5	15.0	15.9	16.4	14.5	15.4	14.9	15.9	16.3
	6H	15.1	16.0	15.6	16.4	16.9	15.0	15.9	15.5	16.3	16.8
	8H	15.3	16.1	15.8	16.6	17.0	15.2	16.0	15.7	16.4	16.9
	12H	15.5	16.2	16.0	16.6	17.1	15.3	16.0	15.8	16.5	17.0
8H	4H	14.8	15.6	15.3	16.0	16.5	14.8	15.5	15.2	16.0	16.4
	6H	15.5	16.1	16.0	16.6	17.1	15.4	16.1	15.9	16.6	17.0
	8H	15.8	16.3	16.3	16.9	17.3	15.7	16.3	16.2	16.8	17.3
	12H	16.0	16.5	16.5	17.0	17.5	15.9	16.4	16.4	16.9	17.5
12H	4H	14.8	15.5	15.3	16.0	16.5	14.8	15.5	15.3	15.9	16.4
	6H	15.6	16.1	16.1	16.6	17.1	15.5	16.1	16.0	16.5	17.1
	8H	15.9	16.4	16.4	16.9	17.4	15.8	16.3	16.3	16.8	17.4

(END OF REPORT)