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: P1471806

Luminaire Tested: 24PTR-40S-PW1-L835-UNV-STD-W

Issue Date: 6/22/2026

Test Information

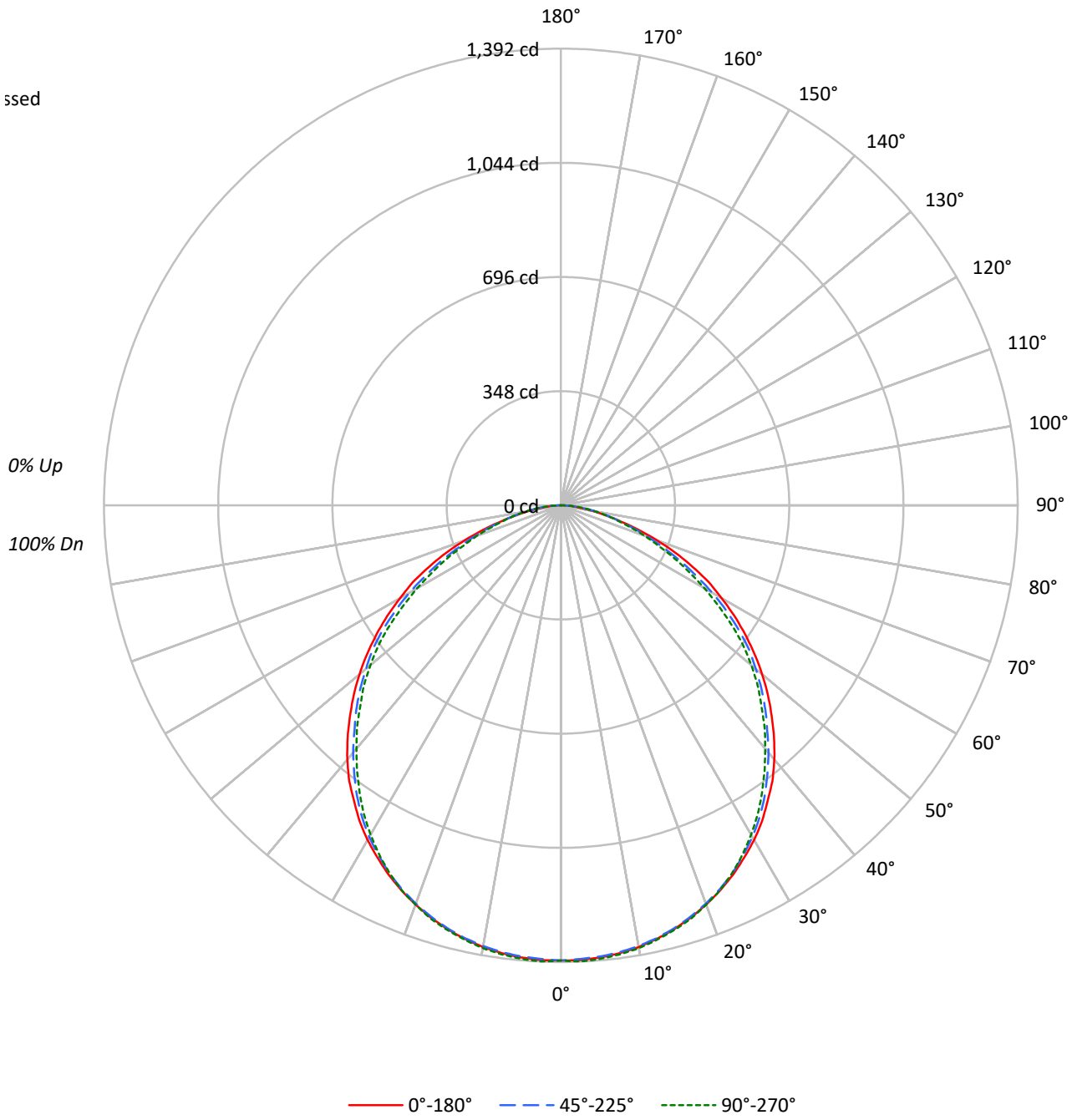
Test Method:	LM-79-2019
Report Number:	P1471806
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737743)
Test Lab:	INNOVATION CENTER
Issue Date:	6/22/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	CORELITE
Catalog Number:	24PTR-40S-PW1-L835-UNV-STD-W
Description:	4000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PW1 Lens White Rece Frame
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3681.8 lumens
Efficiency:	N/A
Efficacy:	121.5 lumens/watt
Spacing Criteria (0/90/45):	1.26 / 1.24 / 1.34
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: P1471806
CATALOG NUMBER: 24PTR-40S-PW1-L835-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1471806
CATALOG NUMBER: 24PTR-40S-PW1-L835-UNV-STD-W

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	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
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	57	68	61	56	66	60	55	64	59	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	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1867	1867	1867
5°	1868	1864	1874
10°	1867	1863	1873
15°	1862	1859	1866
20°	1854	1850	1854
25°	1844	1836	1835
30°	1830	1814	1801
35°	1805	1778	1755
40°	1778	1729	1702
45°	1729	1677	1643
50°	1676	1622	1584
55°	1606	1552	1490
60°	1523	1433	1358
65°	1409	1280	1216
70°	1221	1114	1072
75°	975	953	927
80°	741	828	828
85°	548	707	707

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 1729 cd/sqm

TEST NUMBER: P1471806
CATALOG NUMBER: 24PTR-40S-PW1-L835-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.6	3.6
10°-20°	377.4	10.2
20°-30°	570.3	15.5
30°-40°	677.2	18.4
40°-50°	682.3	18.5
50°-60°	589.8	16.0
60°-70°	403.1	10.9
70°-80°	198.8	5.4
80°-90°	51.4	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°	1079.3	29.3
0°-40°	1756.5	47.7
0°-60°	3028.5	82.3
0°-90°	3681.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3681.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1387	1387	1387	1387	1387	
5°	1383	1384	1380	1386	1387	132
15°	1337	1338	1334	1339	1340	377
25°	1242	1241	1237	1238	1236	572
35°	1099	1095	1082	1073	1069	688
45°	908	898	882	871	864	701
55°	685	683	662	642	635	612
65°	442	427	402	384	382	437
75°	188	186	183	183	178	204
85°	36	42	46	47	46	43
90°	0	0	0	0	0	

TEST NUMBER: P1471806
CATALOG NUMBER: 24PTR-40S-PW1-L835-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1387.4	1387.4	1387.4	1387.4	*1387.4*
2.5°	*1387.0*	*1387.4*	*1383.8*	*1390.0*	*1391.5*
5°	1383.3	1383.8	1380.3	1385.9	*1387.4*
7.5°	1376.7	1377.6	1373.5	1379.1	*1380.3*
10°	1366.8	1367.4	1363.8	1369.4	*1370.6*
12.5°	1353.6	1353.9	1350.9	1356.0	*1356.0*
15°	1336.6	1338.0	1334.5	1339.2	*1339.5*
17.5°	1317.5	1318.1	1314.5	1319.6	*1320.7*
20°	1294.9	1294.9	1291.9	1296.0	*1294.9*
22.5°	1269.7	1269.7	1266.1	1268.2	*1269.1*
25°	1242.0	1240.9	1236.8	1237.9	*1235.9*
27.5°	1210.1	1210.1	1202.8	1202.8	*1199.3*
30°	1177.8	1175.2	1167.5	1162.8	*1159.3*
32.5°	1140.6	1137.1	1127.3	1119.1	*1116.5*
35°	1099.1	1095.4	1082.5	1072.8	*1068.7*
37.5°	1059.0	1050.7	1033.8	1024.0	*1019.4*
40°	1012.1	1001.8	984.4	971.0	*968.9*
42.5°	961.8	953.6	931.0	921.1	*918.7*
45°	908.4	898.5	881.5	871.2	*863.6*
47.5°	855.9	848.6	829.2	816.9	*814.3*
50°	800.8	794.6	774.7	761.4	*756.7*
52.5°	743.8	739.7	722.7	705.7	*700.1*
55°	684.8	682.8	661.6	642.0	*635.3*
57.5°	626.7	624.1	597.8	575.2	*569.0*
60°	566.0	558.3	532.6	511.5	*504.7*
62.5°	508.5	492.0	464.2	447.8	*440.1*
65°	442.5	426.7	402.0	384.4	*382.0*
67.5°	377.9	358.8	339.8	329.0	*320.7*
70°	310.5	297.6	283.2	274.0	*272.5*
72.5°	247.7	238.5	231.3	225.7	*221.0*
75°	187.5	186.1	183.4	183.4	*178.4*
77.5°	137.9	141.4	143.5	142.9	*144.0*
80°	95.6	102.7	106.8	107.4	*106.8*
82.5°	60.7	68.9	75.7	76.6	*77.7*
85°	35.5	41.7	45.8	46.7	*45.8*
87.5°	15.9	20.0	21.1	22.0	*21.1*
90°	0.0	0.0	0.0	0.0	*0.0*

TEST NUMBER: P1471806
CATALOG NUMBER: 24PTR-40S-PW1-L835-UNV-STD-W

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	13.9	15.5	14.2	15.8	16.1	13.3	14.9	13.6	15.2	15.5
	3H	15.3	16.8	15.7	17.1	17.4	14.6	16.1	15.0	16.4	16.8
	4H	15.8	17.1	16.2	17.5	17.8	15.1	16.5	15.5	16.8	17.2
	6H	16.0	17.3	16.4	17.6	18.0	15.5	16.7	15.9	17.1	17.5
	8H	16.1	17.3	16.5	17.7	18.1	15.6	16.8	16.0	17.2	17.6
	12H	16.1	17.2	16.5	17.6	18.1	15.7	16.8	16.1	17.2	17.6
4H	2H	14.3	15.7	14.7	16.0	16.4	13.8	15.2	14.2	15.5	15.9
	3H	16.0	17.1	16.4	17.5	17.9	15.4	16.5	15.8	16.9	17.3
	4H	16.5	17.5	16.9	17.9	18.4	16.0	17.0	16.4	17.4	17.9
	6H	16.9	17.8	17.3	18.2	18.7	16.5	17.4	16.9	17.8	18.3
	8H	17.0	17.8	17.4	18.2	18.7	16.6	17.5	17.1	17.9	18.4
	12H	17.0	17.8	17.5	18.2	18.7	16.7	17.5	17.2	18.0	18.4
8H	4H	16.7	17.5	17.2	18.0	18.4	16.2	17.1	16.7	17.5	18.0
	6H	17.2	17.8	17.6	18.3	18.8	16.8	17.5	17.3	18.0	18.5
	8H	17.3	17.9	17.8	18.4	18.9	17.0	17.7	17.5	18.2	18.6
	12H	17.4	18.0	17.9	18.4	19.0	17.2	17.8	17.7	18.3	18.8
12H	4H	16.7	17.5	17.2	17.9	18.4	16.3	17.0	16.7	17.5	17.9
	6H	17.2	17.8	17.7	18.3	18.8	16.9	17.5	17.4	17.9	18.5
	8H	17.4	17.9	17.9	18.4	19.0	17.1	17.7	17.6	18.2	18.7

(END OF REPORT)