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: P1471837

Luminaire Tested: 24PTR-50S-PW1-L835-UNV-STD-B

Issue Date: 6/22/2026

Test Information

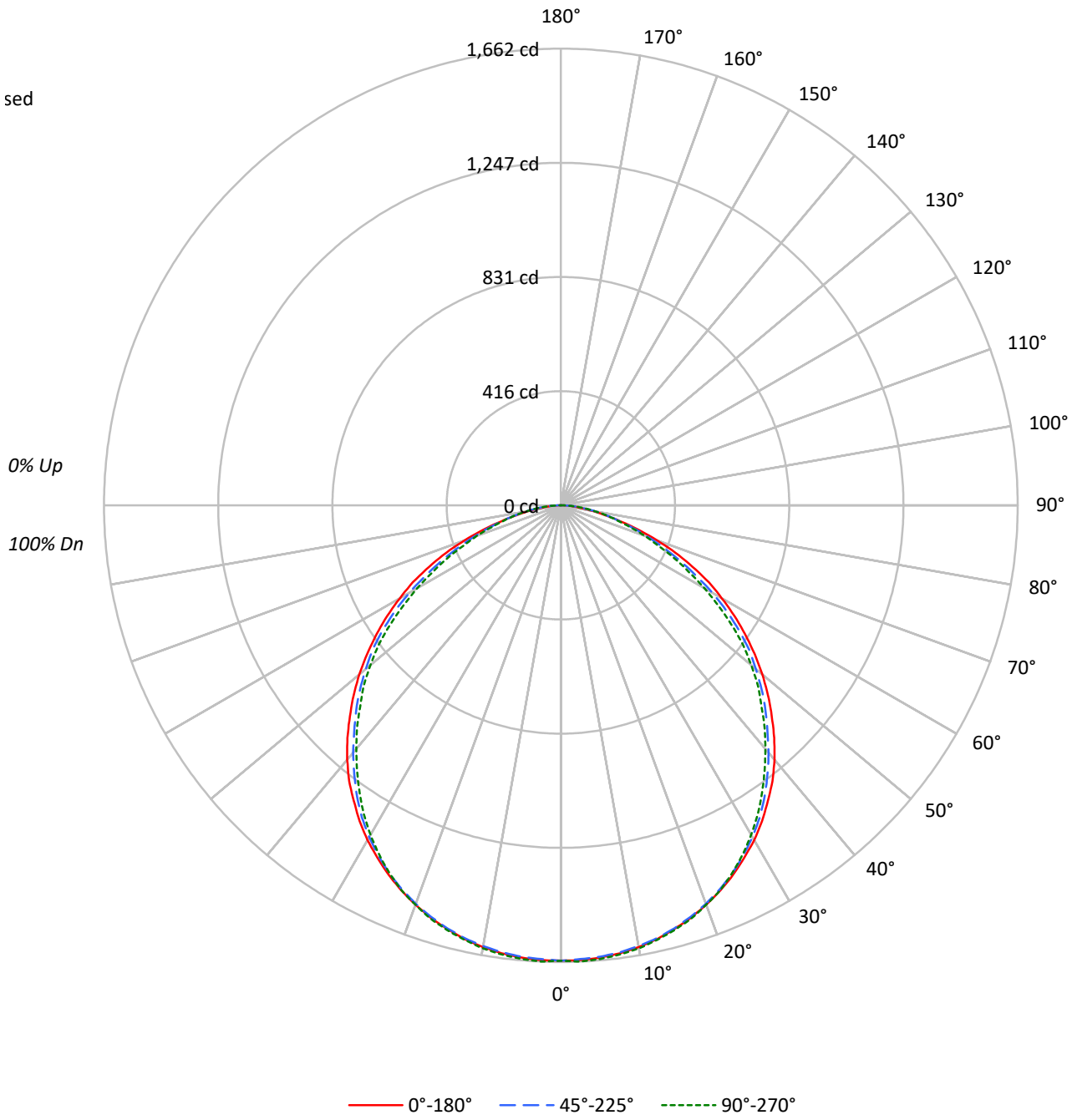
Test Method:	LM-79-2019
Report Number:	P1471837
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737743)
Test Lab:	INNOVATION CENTER
Issue Date:	6/22/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	CORELITE
Catalog Number:	24PTR-50S-PW1-L835-UNV-STD-B
Description:	5500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PW1 Lens Black Reces
	Frame
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4397.5 lumens
Efficiency:	N/A
Efficacy:	99.7 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):	44.1
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

TEST NUMBER: P1471837
CATALOG NUMBER: 24PTR-50S-PW1-L835-UNV-STD-B

Luminous Intensity Polar Plot



TEST NUMBER: P1471837
CATALOG NUMBER: 24PTR-50S-PW1-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	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°	2229	2229	2229
5°	2231	2227	2238
10°	2230	2225	2237
15°	2224	2220	2229
20°	2214	2209	2214
25°	2202	2193	2191
30°	2186	2166	2151
35°	2156	2124	2097
40°	2123	2065	2033
45°	2065	2003	1963
50°	2002	1937	1892
55°	1919	1854	1780
60°	1819	1712	1622
65°	1683	1528	1453
70°	1459	1330	1281
75°	1164	1139	1108
80°	885	989	989
85°	655	844	844

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2065 cd/sqm

TEST NUMBER: P1471837
CATALOG NUMBER: 24PTR-50S-PW1-L835-UNV-STD-B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.1	3.6
10°-20°	450.7	10.2
20°-30°	681.2	15.5
30°-40°	808.9	18.4
40°-50°	814.9	18.5
50°-60°	704.4	16.0
60°-70°	481.4	10.9
70°-80°	237.4	5.4
80°-90°	61.4	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°	1289.1	29.3
0°-40°	2097.9	47.7
0°-60°	3617.3	82.3
0°-90°	4397.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4397.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1657	1657	1657	1657	1657	
5°	1652	1653	1649	1655	1657	157
15°	1596	1598	1594	1600	1600	451
25°	1484	1482	1477	1479	1476	683
35°	1313	1308	1293	1281	1276	822
45°	1085	1073	1053	1041	1031	837
55°	818	816	790	767	759	731
65°	528	510	480	459	456	522
75°	224	222	219	219	213	244
85°	42	50	55	56	55	52
90°	0	0	0	0	0	

TEST NUMBER: P1471837
CATALOG NUMBER: 24PTR-50S-PW1-L835-UNV-STD-B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1657.0	1657.0	1657.0	1657.0	*1657.0*
2.5°	*1656.6*	*1657.0*	*1652.8*	*1660.2*	*1661.9*
5°	1652.1	1652.8	1648.6	1655.3	*1657.0*
7.5°	1644.3	1645.4	1640.5	1647.2	*1648.6*
10°	1632.5	1633.2	1628.9	1635.6	*1637.0*
12.5°	1616.7	1617.1	1613.5	1619.6	*1619.6*
15°	1596.4	1598.1	1593.9	1599.5	*1599.9*
17.5°	1573.6	1574.3	1570.0	1576.0	*1577.4*
20°	1546.6	1546.6	1543.0	1547.9	*1546.6*
22.5°	1516.5	1516.5	1512.2	1514.7	*1515.8*
25°	1483.5	1482.1	1477.2	1478.6	*1476.1*
27.5°	1445.3	1445.3	1436.6	1436.6	*1432.4*
30°	1406.7	1403.6	1394.4	1388.9	*1384.6*
32.5°	1362.3	1358.1	1346.5	1336.7	*1333.5*
35°	1312.8	1308.3	1292.9	1281.3	*1276.4*
37.5°	1264.8	1255.0	1234.7	1223.1	*1217.5*
40°	1208.8	1196.5	1175.8	1159.7	*1157.3*
42.5°	1148.8	1139.0	1112.0	1100.2	*1097.3*
45°	1085.0	1073.2	1052.9	1040.6	*1031.4*
47.5°	1022.3	1013.6	990.4	975.7	*972.5*
50°	956.5	949.1	925.2	909.4	*903.8*
52.5°	888.4	883.5	863.2	842.9	*836.2*
55°	817.9	815.5	790.3	766.8	*758.8*
57.5°	748.5	745.4	714.0	687.0	*679.6*
60°	676.0	666.9	636.1	610.9	*602.8*
62.5°	607.3	587.7	554.4	534.8	*525.6*
65°	528.5	509.6	480.1	459.2	*456.3*
67.5°	451.4	428.6	405.8	392.9	*383.1*
70°	370.8	355.4	338.2	327.3	*325.5*
72.5°	295.8	284.9	276.2	269.5	*263.9*
75°	224.0	222.2	219.1	219.1	*213.1*
77.5°	164.7	168.9	171.3	170.7	*172.0*
80°	114.2	122.7	127.6	128.3	*127.6*
82.5°	72.5	82.3	90.4	91.5	*92.8*
85°	42.4	49.8	54.7	55.8	*54.7*
87.5°	19.0	23.9	25.2	26.3	*25.2*
90°	0.0	0.0	0.0	0.0	*0.0*

TEST NUMBER: P1471837
CATALOG NUMBER: 24PTR-50S-PW1-L835-UNV-STD-B

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	14.5	16.1	14.8	16.4	16.7	13.9	15.5	14.2	15.8	16.1
	3H	15.9	17.4	16.3	17.7	18.1	15.3	16.7	15.6	17.0	17.4
	4H	16.4	17.7	16.8	18.1	18.5	15.7	17.1	16.1	17.4	17.8
	6H	16.6	17.9	17.0	18.3	18.6	16.1	17.4	16.5	17.7	18.1
	8H	16.7	17.9	17.1	18.3	18.7	16.2	17.4	16.6	17.8	18.2
	12H	16.7	17.9	17.2	18.2	18.7	16.3	17.4	16.7	17.8	18.2
4H	2H	14.9	16.3	15.3	16.6	17.0	14.4	15.8	14.8	16.1	16.5
	3H	16.6	17.7	17.0	18.1	18.5	16.0	17.2	16.4	17.6	18.0
	4H	17.1	18.1	17.6	18.6	19.0	16.6	17.6	17.0	18.0	18.5
	6H	17.5	18.4	17.9	18.8	19.3	17.1	18.0	17.5	18.4	18.9
	8H	17.6	18.4	18.0	18.9	19.3	17.2	18.1	17.7	18.5	19.0
	12H	17.6	18.4	18.1	18.9	19.3	17.4	18.1	17.8	18.6	19.1
8H	4H	17.3	18.1	17.8	18.6	19.1	16.9	17.7	17.3	18.1	18.6
	6H	17.8	18.5	18.3	18.9	19.4	17.4	18.1	17.9	18.6	19.1
	8H	17.9	18.5	18.4	19.0	19.5	17.7	18.3	18.2	18.8	19.3
	12H	18.0	18.6	18.5	19.1	19.6	17.8	18.4	18.3	18.9	19.4
12H	4H	17.3	18.1	17.8	18.5	19.0	16.9	17.6	17.4	18.1	18.6
	6H	17.8	18.4	18.3	18.9	19.4	17.5	18.1	18.0	18.6	19.1
	8H	18.0	18.5	18.5	19.0	19.6	17.7	18.3	18.2	18.8	19.3

(END OF REPORT)