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: P1471826

Luminaire Tested: 24PTR-50S-PB1-L835-UNV-STD-W

Issue Date: 6/22/2026

Test Information

Test Method:	LM-79-2019
Report Number:	P1471826
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737703)
Test Lab:	INNOVATION CENTER
Issue Date:	6/22/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	CORELITE
Catalog Number:	24PTR-50S-PB1-L835-UNV-STD-W
Description:	5500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PB1 Lens White Reces
	Frame
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4994.7 lumens
Efficiency:	N/A
Efficacy:	113.3 lumens/watt
Spacing Criteria (0/90/45):	1.26 / 1.25 / 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

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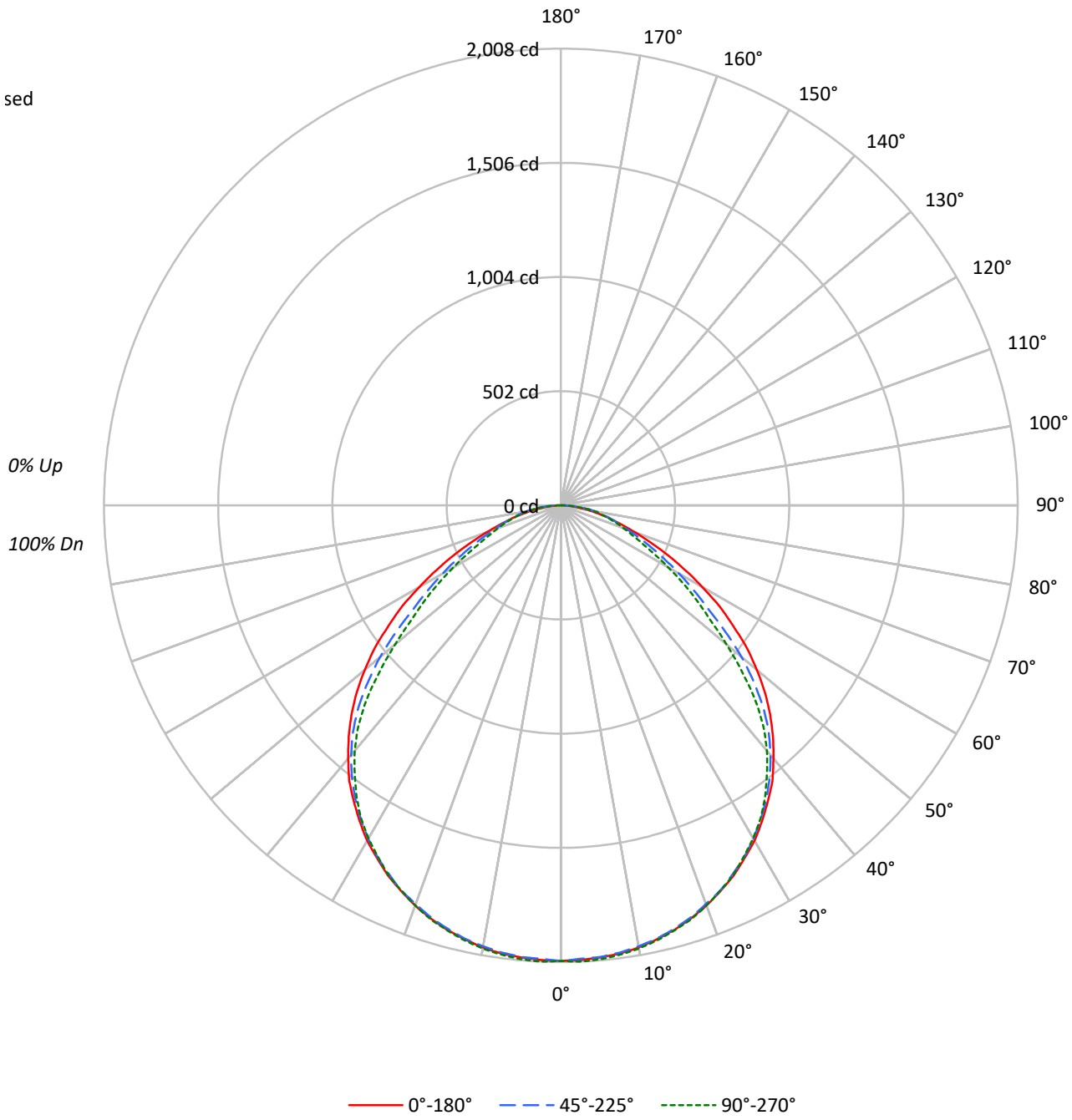
Luminous Intensity Polar Plot



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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	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2695	2695	2695
5°	2695	2692	2705
10°	2696	2690	2703
15°	2691	2684	2694
20°	2681	2671	2681
25°	2666	2655	2663
30°	2645	2630	2626
35°	2606	2586	2570
40°	2553	2519	2475
45°	2475	2395	2297
50°	2352	2171	1985
55°	2167	1844	1711
60°	1929	1611	1465
65°	1655	1397	1248
70°	1367	1231	1144
75°	1153	1178	1115
80°	974	1203	1147
85°	763	1218	1067

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2475 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.9	3.8
10°-20°	545.0	10.9
20°-30°	825.5	16.5
30°-40°	983.7	19.7
40°-50°	961.9	19.3
50°-60°	727.6	14.6
60°-70°	447.0	8.9
70°-80°	238.2	4.8
80°-90°	76.0	1.5
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°	1560.4	31.2
0°-40°	2544.1	50.9
0°-60°	4233.6	84.8
0°-90°	4994.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4994.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2003	2003	2003	2003	2003	
5°	1996	1998	1993	2001	2003	190
15°	1932	1934	1927	1934	1934	545
25°	1796	1794	1789	1791	1794	827
35°	1587	1584	1574	1567	1565	992
45°	1301	1294	1259	1217	1207	1001
55°	924	877	786	742	729	827
65°	520	478	439	404	392	517
75°	222	224	227	219	214	238
85°	49	64	79	74	69	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2003.1	2003.1	2003.1	2003.1	*2003.1*
2.5°	*2000.7*	*2003.1*	*1995.6*	*2005.6*	*2008.0*
5°	1995.6	1998.1	1993.2	2000.7	*2003.1*
7.5°	1988.3	1988.3	1983.4	1990.6	*1993.2*
10°	1973.6	1973.6	1968.7	1975.9	*1978.5*
12.5°	1953.9	1953.9	1951.3	1956.2	*1958.8*
15°	1931.7	1934.0	1926.8	1934.0	*1934.0*
17.5°	1904.5	1902.2	1899.6	1904.5	*1907.1*
20°	1872.4	1872.4	1865.2	1870.1	*1872.4*
22.5°	1835.4	1835.4	1833.1	1835.4	*1833.1*
25°	1796.1	1793.5	1788.6	1791.2	*1793.5*
27.5°	1749.3	1749.3	1744.4	1744.4	*1741.8*
30°	1702.5	1699.9	1692.7	1687.8	*1690.1*
32.5°	1645.9	1643.3	1636.0	1631.1	*1633.4*
35°	1586.6	1584.3	1574.5	1567.0	*1564.6*
37.5°	1527.6	1520.1	1507.7	1497.9	*1488.1*
40°	1453.7	1446.2	1434.0	1411.8	*1409.2*
42.5°	1379.7	1372.4	1352.5	1325.6	*1318.1*
45°	1300.8	1293.6	1258.9	1217.0	*1207.2*
47.5°	1217.0	1204.8	1150.5	1098.8	*1079.1*
50°	1123.6	1101.4	1037.2	970.7	*948.5*
52.5°	1032.3	993.0	909.2	850.0	*828.0*
55°	923.9	877.1	786.1	741.6	*729.2*
57.5°	828.0	763.8	689.8	645.6	*635.8*
60°	717.0	657.8	598.8	559.2	*544.5*
62.5°	615.9	564.1	515.0	480.3	*463.3*
65°	519.9	478.0	438.7	404.0	*391.9*
67.5°	426.3	404.0	372.0	345.1	*337.6*
70°	347.4	335.0	313.0	300.6	*290.7*
72.5°	276.0	280.9	266.2	261.2	*253.7*
75°	221.7	224.3	226.6	219.3	*214.4*
77.5°	167.6	179.8	189.6	184.7	*179.8*
80°	125.7	137.9	155.2	148.0	*148.0*
82.5°	86.1	101.1	115.9	111.0	*108.4*
85°	49.4	64.1	78.9	74.0	*69.1*
87.5°	19.7	32.1	34.4	34.4	*32.1*
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	14.3	15.9	14.7	16.2	16.5	13.0	14.6	13.4	14.9	15.2
	3H	15.6	17.0	15.9	17.3	17.7	14.3	15.7	14.7	16.0	16.4
	4H	16.0	17.3	16.4	17.6	18.0	14.9	16.2	15.3	16.5	16.9
	6H	16.3	17.5	16.7	17.8	18.2	15.4	16.6	15.8	16.9	17.3
	8H	16.4	17.5	16.8	17.9	18.3	15.5	16.7	16.0	17.1	17.5
	12H	16.4	17.5	16.8	17.9	18.3	15.7	16.8	16.1	17.2	17.6
4H	2H	14.7	16.0	15.1	16.3	16.7	13.6	14.9	14.0	15.2	15.6
	3H	16.1	17.2	16.5	17.6	18.0	15.1	16.2	15.5	16.6	17.0
	4H	16.7	17.6	17.1	18.1	18.5	15.8	16.7	16.2	17.2	17.6
	6H	17.1	17.9	17.5	18.4	18.8	16.4	17.3	16.9	17.7	18.2
	8H	17.2	18.0	17.7	18.5	18.9	16.7	17.5	17.1	17.9	18.4
	12H	17.3	18.0	17.8	18.5	19.0	16.9	17.6	17.3	18.0	18.5
8H	4H	16.9	17.7	17.3	18.1	18.6	16.1	16.9	16.5	17.3	17.8
	6H	17.4	18.1	17.9	18.6	19.0	16.9	17.5	17.4	18.0	18.5
	8H	17.6	18.2	18.1	18.7	19.2	17.2	17.8	17.7	18.3	18.8
	12H	17.8	18.3	18.3	18.8	19.4	17.5	18.0	18.0	18.5	19.1
12H	4H	16.9	17.6	17.4	18.1	18.6	16.1	16.8	16.6	17.3	17.8
	6H	17.5	18.1	18.0	18.5	19.1	16.9	17.5	17.5	18.0	18.5
	8H	17.7	18.3	18.2	18.8	19.3	17.3	17.9	17.8	18.4	18.9

(END OF REPORT)