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: P1471831

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

Issue Date: 6/22/2026

Test Information

Test Method:	LM-79-2019
Report Number:	P1471831
	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-50S-PLG-L835-UNV-STD-B
Description:	5500 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:	4755.0 lumens
Efficiency:	N/A
Efficacy:	107.8 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):	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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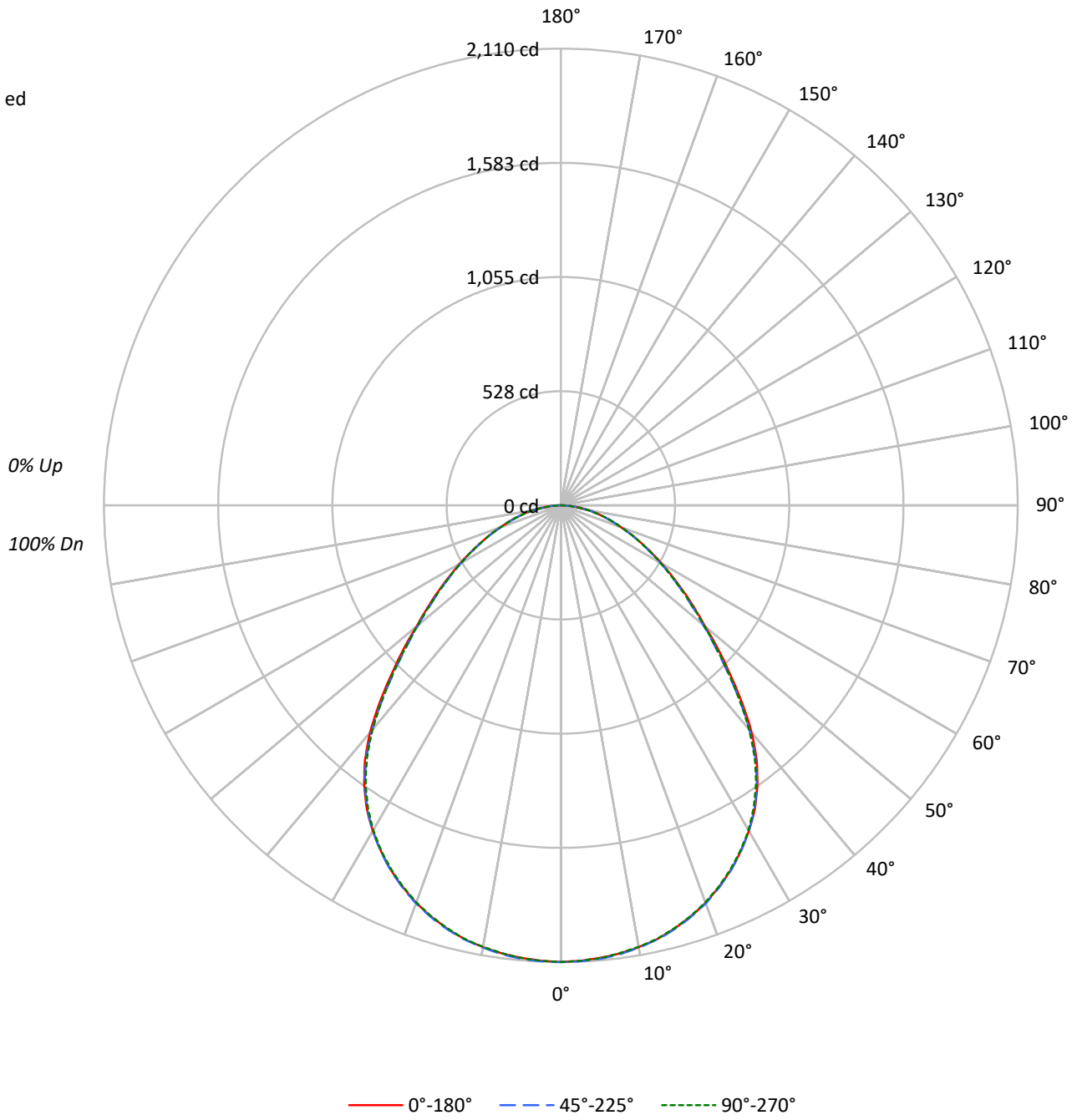
Luminous Intensity Polar Plot



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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	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°	2839	2839	2839
5°	2834	2840	2836
10°	2832	2834	2830
15°	2821	2825	2819
20°	2799	2803	2794
25°	2759	2761	2753
30°	2699	2699	2692
35°	2600	2593	2581
40°	2410	2383	2375
45°	2106	2072	2080
50°	1818	1796	1806
55°	1616	1592	1595
60°	1447	1427	1427
65°	1297	1287	1292
70°	1166	1155	1166
75°	1082	1067	1082
80°	1010	998	963
85°	855	855	763

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2106 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.8	4.2
10°-20°	571.7	12.0
20°-30°	855.4	18.0
30°-40°	980.0	20.6
40°-50°	847.6	17.8
50°-60°	613.5	12.9
60°-70°	404.1	8.5
70°-80°	219.9	4.6
80°-90°	63.1	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°	1626.9	34.2
0°-40°	2606.9	54.8
0°-60°	4068.0	85.6
0°-90°	4755.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4755.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2110	2110	2110	2110	2110	
5°	2098	2103	2103	2103	2100	200
15°	2025	2026	2028	2031	2023	571
25°	1859	1859	1860	1862	1854	855
35°	1583	1582	1579	1577	1571	983
45°	1107	1104	1089	1087	1093	857
55°	689	686	678	674	680	620
65°	407	410	404	401	406	407
75°	208	208	205	205	208	222
85°	55	55	55	57	49	64
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*2110.2*	*2110.2*	*2110.2*	*2110.2*	*2110.2*
2.5°	*2105.8*	2110.2	2108.7	2110.2	2105.8
5°	*2098.3*	2102.8	2102.8	2102.8	2099.8
7.5°	*2087.8*	2090.8	2092.3	2093.8	2086.3
10°	*2072.8*	2075.8	2074.3	2077.3	2071.3
12.5°	*2053.3*	2053.3	2054.8	2057.8	2051.8
15°	*2024.9*	2026.4	2027.9	2030.9	2023.4
17.5°	*1991.9*	1993.4	1994.9	1996.4	1990.4
20°	*1954.5*	1954.5	1957.5	1959.0	1951.5
22.5°	*1908.1*	1908.1	1911.1	1915.5	1906.6
25°	*1858.6*	1858.6	1860.1	1861.6	1854.1
27.5°	*1800.2*	1800.2	1801.7	1806.2	1797.2
30°	*1737.3*	1735.8	1737.3	1738.8	1732.8
32.5°	*1666.9*	1665.4	1663.9	1665.4	1657.9
35°	*1583.1*	1581.6	1578.6	1577.1	1571.1
37.5°	*1485.7*	1482.7	1476.7	1476.7	1470.7
40°	*1371.9*	1364.4	1356.9	1353.9	1352.4
42.5°	*1240.1*	1234.1	1223.6	1222.1	1222.1
45°	*1106.8*	1103.8	1088.8	1087.3	1093.3
47.5°	*987.0*	979.5	966.0	963.0	972.0
50°	*868.7*	870.2	858.2	853.7	862.7
52.5°	*775.8*	772.8	762.3	759.3	766.8
55°	*688.9*	685.9	678.5	674.0	680.0
57.5°	*609.6*	608.1	600.6	599.1	602.1
60°	*537.7*	536.2	530.2	528.7	530.2
62.5°	*470.3*	470.3	464.3	461.3	465.8
65°	*407.4*	410.4	404.4	401.4	405.9
67.5°	*350.5*	353.5	347.5	344.5	350.5
70°	*296.5*	299.5	293.5	290.6	296.5
72.5°	*250.1*	251.6	247.1	245.6	253.1
75°	*208.2*	208.2	205.2	205.2	208.2
77.5°	*169.2*	167.7	166.2	166.2	163.2
80°	*130.3*	128.8	128.8	128.8	124.3
82.5°	*92.9*	89.9	91.4	92.9	85.4
85°	*55.4*	55.4	55.4	56.9	49.4
87.5°	*22.5*	22.5	21.0	22.5	19.5
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	12.9	14.4	13.3	14.7	15.0	12.8	14.3	13.2	14.6	14.9
	3H	14.3	15.7	14.7	16.0	16.4	14.2	15.6	14.6	15.9	16.3
	4H	14.9	16.1	15.3	16.5	16.9	14.8	16.1	15.2	16.4	16.8
	6H	15.3	16.5	15.7	16.8	17.2	15.2	16.4	15.6	16.7	17.1
	8H	15.5	16.6	15.9	17.0	17.4	15.3	16.4	15.8	16.8	17.2
	12H	15.5	16.6	16.0	17.0	17.4	15.4	16.5	15.8	16.9	17.3
4H	2H	13.4	14.6	13.8	15.0	15.4	13.3	14.6	13.7	14.9	15.3
	3H	15.0	16.1	15.4	16.5	16.9	14.9	16.0	15.4	16.4	16.8
	4H	15.7	16.7	16.1	17.1	17.5	15.6	16.6	16.1	17.0	17.4
	6H	16.3	17.1	16.7	17.5	18.0	16.2	17.0	16.6	17.4	17.9
	8H	16.5	17.2	16.9	17.7	18.1	16.4	17.1	16.8	17.6	18.0
	12H	16.6	17.3	17.1	17.8	18.2	16.5	17.2	17.0	17.6	18.1
8H	4H	16.0	16.7	16.4	17.2	17.6	15.9	16.7	16.3	17.1	17.6
	6H	16.6	17.3	17.1	17.8	18.2	16.6	17.2	17.1	17.7	18.2
	8H	16.9	17.5	17.4	18.0	18.5	16.8	17.4	17.3	17.9	18.4
	12H	17.1	17.6	17.6	18.1	18.7	17.0	17.5	17.5	18.0	18.6
12H	4H	16.0	16.7	16.5	17.1	17.6	15.9	16.6	16.4	17.1	17.5
	6H	16.7	17.3	17.2	17.7	18.3	16.6	17.2	17.1	17.7	18.2
	8H	17.0	17.5	17.5	18.0	18.6	16.9	17.4	17.4	17.9	18.5

(END OF REPORT)