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: P1471832

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

Issue Date: 6/22/2026

Test Information

Test Method:	LM-79-2019
Report Number:	P1471832
	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-W
Description:	5500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PLG Lens White Reces Frame
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4254.5 lumens
Efficiency:	N/A
Efficacy:	96.5 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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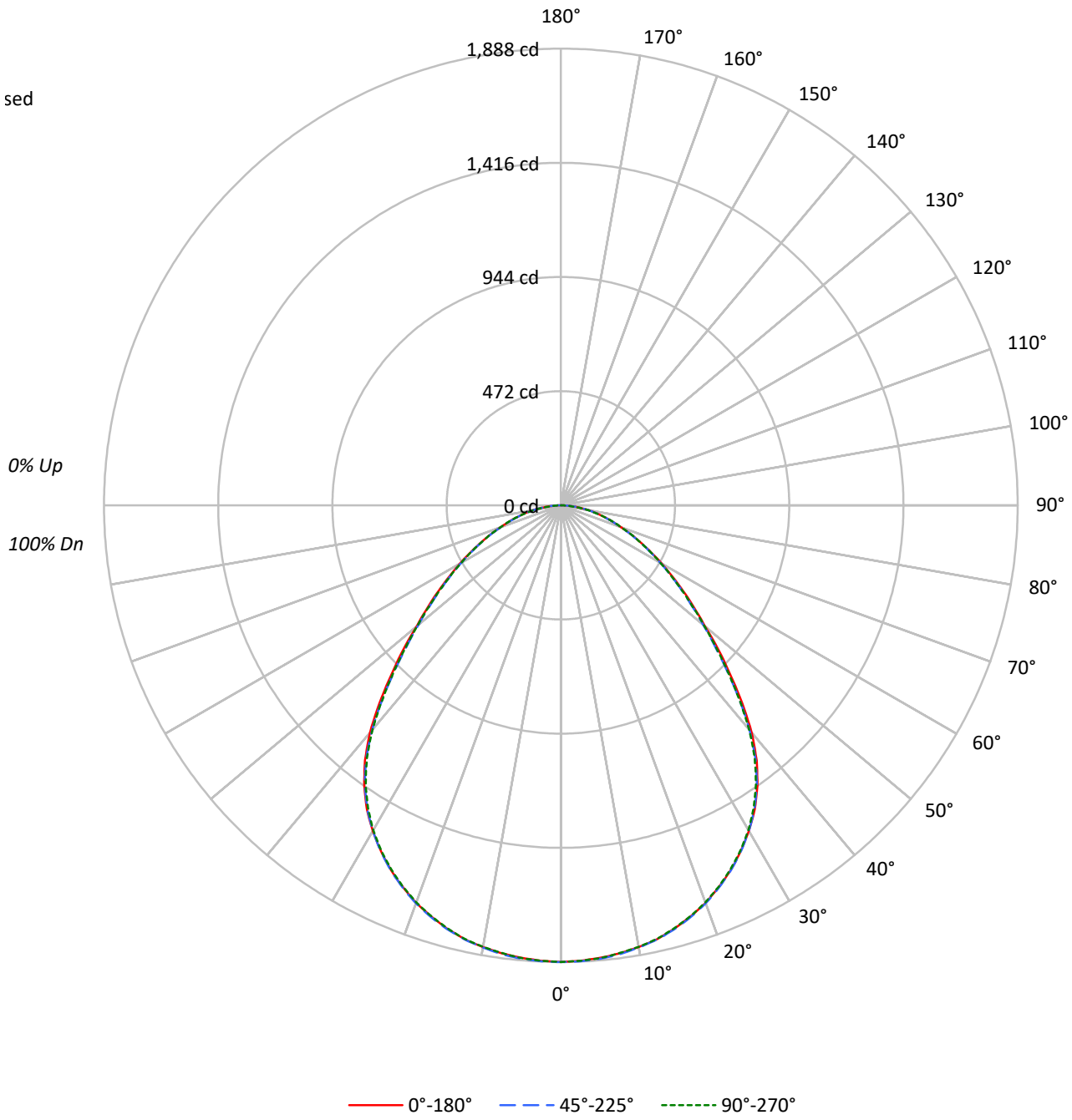
Luminous Intensity Polar Plot



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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°	2540	2540	2540
5°	2536	2541	2537
10°	2534	2536	2532
15°	2524	2527	2522
20°	2504	2508	2500
25°	2469	2471	2463
30°	2415	2415	2409
35°	2326	2320	2309
40°	2156	2132	2125
45°	1884	1854	1861
50°	1627	1607	1616
55°	1446	1424	1427
60°	1295	1277	1277
65°	1160	1152	1156
70°	1044	1033	1044
75°	968	954	968
80°	903	893	862
85°	766	766	682

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 1884 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.8	4.2
10°-20°	511.5	12.0
20°-30°	765.4	18.0
30°-40°	876.9	20.6
40°-50°	758.4	17.8
50°-60°	548.9	12.9
60°-70°	361.5	8.5
70°-80°	196.8	4.6
80°-90°	56.4	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°	1455.6	34.2
0°-40°	2332.5	54.8
0°-60°	3639.8	85.6
0°-90°	4254.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4254.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1888	1888	1888	1888	1888	
5°	1877	1881	1881	1881	1879	179
15°	1812	1813	1814	1817	1810	511
25°	1663	1663	1664	1666	1659	765
35°	1416	1415	1412	1411	1406	880
45°	990	988	974	973	978	767
55°	616	614	607	603	608	555
65°	364	367	362	359	363	364
75°	186	186	184	184	186	198
85°	50	50	50	51	44	57
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*1888.1*	*1888.1*	*1888.1*	*1888.1*	*1888.1*
2.5°	*1884.1*	1888.1	1886.8	1888.1	1884.1
5°	*1877.4*	1881.4	1881.4	1881.4	1878.7
7.5°	*1868.0*	1870.7	1872.0	1873.4	1866.7
10°	*1854.6*	1857.3	1856.0	1858.6	1853.3
12.5°	*1837.2*	1837.2	1838.5	1841.2	1835.9
15°	*1811.7*	1813.1	1814.4	1817.1	1810.4
17.5°	*1782.3*	1783.6	1784.9	1786.3	1780.9
20°	*1748.8*	1748.8	1751.4	1752.8	1746.1
22.5°	*1707.2*	1707.2	1709.9	1713.9	1705.9
25°	*1663.0*	1663.0	1664.3	1665.7	1659.0
27.5°	*1610.7*	1610.7	1612.1	1616.1	1608.0
30°	*1554.4*	1553.1	1554.4	1555.8	1550.4
32.5°	*1491.5*	1490.1	1488.8	1490.1	1483.4
35°	*1416.4*	1415.1	1412.4	1411.1	1405.7
37.5°	*1329.3*	1326.6	1321.3	1321.3	1315.9
40°	*1227.5*	1220.8	1214.1	1211.4	1210.1
42.5°	*1109.6*	1104.2	1094.8	1093.5	1093.5
45°	*990.3*	987.6	974.2	972.9	978.2
47.5°	*883.1*	876.4	864.3	861.6	869.7
50°	*777.2*	778.6	767.8	763.8	771.9
52.5°	*694.1*	691.5	682.1	679.4	686.1
55°	*616.4*	613.7	607.0	603.0	608.4
57.5°	*545.4*	544.1	537.4	536.0	538.7
60°	*481.1*	479.7	474.4	473.0	474.4
62.5°	*420.8*	420.8	415.4	412.7	416.8
65°	*364.5*	367.2	361.8	359.1	363.2
67.5°	*313.6*	316.2	310.9	308.2	313.6
70°	*265.3*	268.0	262.6	260.0	265.3
72.5°	*223.8*	225.1	221.1	219.8	226.5
75°	*186.3*	186.3	183.6	183.6	186.3
77.5°	*151.4*	150.1	148.7	148.7	146.1
80°	*116.6*	115.2	115.2	115.2	111.2
82.5°	*83.1*	80.4	81.7	83.1	76.4
85°	*49.6*	49.6	49.6	50.9	44.2
87.5°	*20.1*	20.1	18.8	20.1	17.4
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	12.5	14.0	12.9	14.3	14.6	12.4	13.9	12.8	14.2	14.5
	3H	13.9	15.3	14.3	15.6	16.0	13.8	15.2	14.2	15.5	15.9
	4H	14.5	15.8	14.9	16.1	16.5	14.4	15.7	14.8	16.0	16.4
	6H	14.9	16.1	15.3	16.5	16.8	14.8	16.0	15.2	16.4	16.7
	8H	15.1	16.2	15.5	16.6	17.0	14.9	16.1	15.4	16.5	16.9
	12H	15.2	16.2	15.6	16.6	17.0	15.0	16.1	15.5	16.5	16.9
4H	2H	13.0	14.3	13.4	14.6	15.0	12.9	14.2	13.3	14.5	14.9
	3H	14.6	15.7	15.1	16.1	16.5	14.6	15.6	15.0	16.0	16.4
	4H	15.3	16.3	15.8	16.7	17.1	15.2	16.2	15.7	16.6	17.0
	6H	15.9	16.7	16.3	17.2	17.6	15.8	16.6	16.2	17.1	17.5
	8H	16.1	16.9	16.5	17.3	17.8	16.0	16.7	16.4	17.2	17.7
	12H	16.2	16.9	16.7	17.4	17.9	16.1	16.8	16.6	17.3	17.7
8H	4H	15.6	16.3	16.0	16.8	17.3	15.5	16.3	16.0	16.7	17.2
	6H	16.3	16.9	16.8	17.4	17.9	16.2	16.8	16.7	17.3	17.8
	8H	16.5	17.1	17.0	17.6	18.1	16.4	17.0	16.9	17.5	18.0
	12H	16.7	17.2	17.2	17.7	18.3	16.6	17.1	17.1	17.6	18.2
12H	4H	15.6	16.3	16.1	16.8	17.2	15.5	16.2	16.0	16.7	17.2
	6H	16.3	16.9	16.8	17.3	17.9	16.2	16.8	16.8	17.3	17.8
	8H	16.6	17.1	17.1	17.6	18.2	16.5	17.0	17.0	17.5	18.1

(END OF REPORT)