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: P1471825

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

Issue Date: 6/22/2026

Test Information

Test Method:	LM-79-2019
Report Number:	P1471825
	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-B
Description:	5500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PB1 Lens Black Recess Frame
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4311.2 lumens
Efficiency:	N/A
Efficacy:	97.8 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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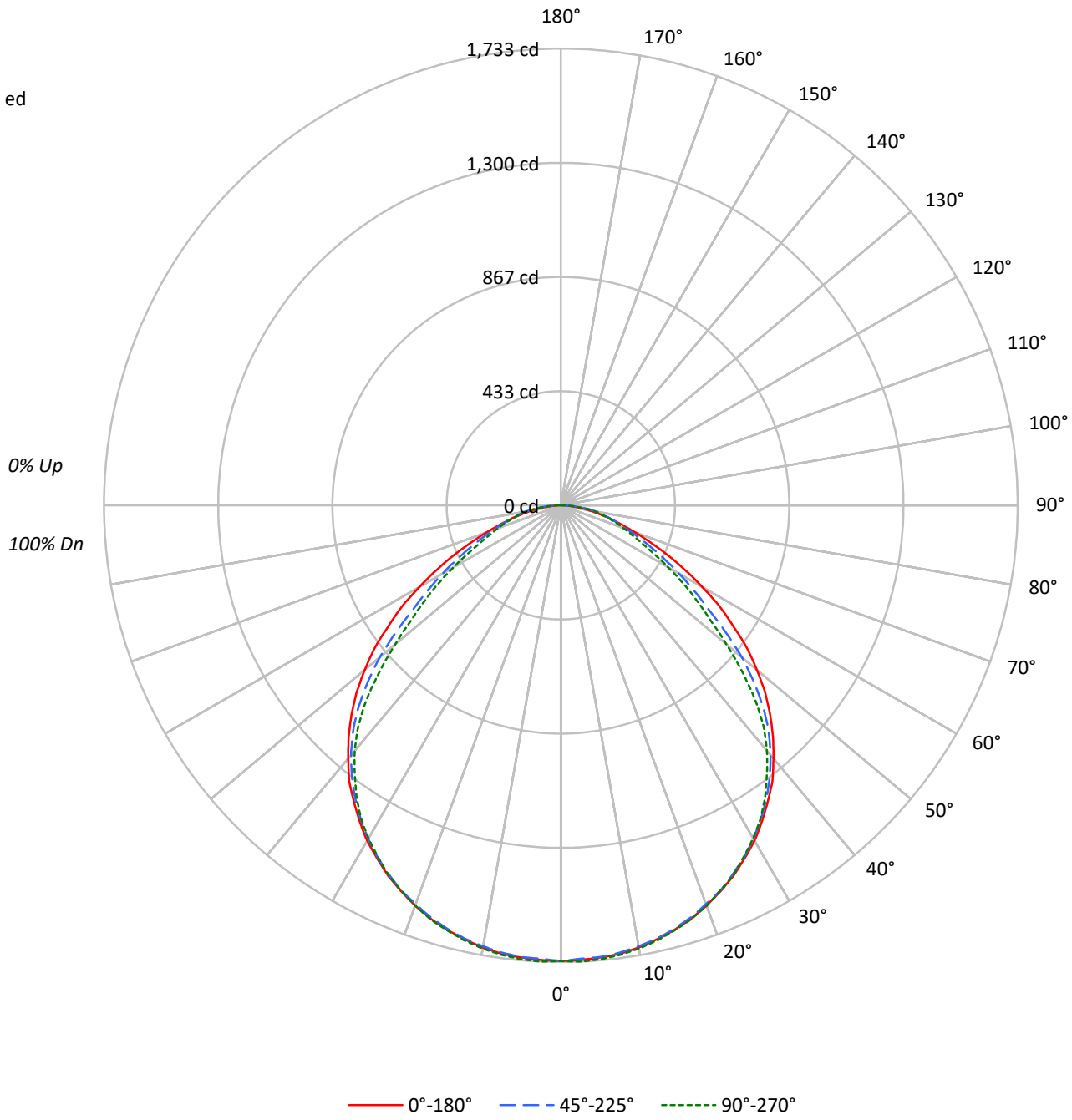
Luminous Intensity Polar Plot



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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°	2326	2326	2326
5°	2326	2324	2335
10°	2327	2322	2333
15°	2322	2317	2325
20°	2314	2305	2314
25°	2302	2292	2298
30°	2283	2270	2266
35°	2249	2232	2218
40°	2204	2174	2136
45°	2136	2068	1983
50°	2030	1874	1714
55°	1871	1592	1476
60°	1665	1391	1265
65°	1429	1206	1077
70°	1179	1063	987
75°	994	1017	962
80°	841	1038	989
85°	658	1051	920

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2136 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.9	3.8
10°-20°	470.4	10.9
20°-30°	712.6	16.5
30°-40°	849.1	19.7
40°-50°	830.3	19.3
50°-60°	628.0	14.6
60°-70°	385.8	8.9
70°-80°	205.6	4.8
80°-90°	65.6	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°	1346.9	31.2
0°-40°	2195.9	50.9
0°-60°	3654.2	84.8
0°-90°	4311.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4311.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1729	1729	1729	1729	1729	
5°	1722	1725	1720	1727	1729	164
15°	1667	1669	1663	1669	1669	471
25°	1550	1548	1544	1546	1548	714
35°	1370	1368	1359	1352	1350	857
45°	1123	1116	1087	1050	1042	864
55°	798	757	678	640	629	714
65°	449	413	379	349	338	447
75°	191	194	196	189	185	205
85°	43	55	68	64	60	51
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1729.0	1729.0	1729.0	1729.0	*1729.0*
2.5°	*1726.9*	*1729.0*	*1722.5*	*1731.2*	*1733.2*
5°	1722.5	1724.7	1720.5	1726.9	*1729.0*
7.5°	1716.2	1716.2	1712.0	1718.2	*1720.5*
10°	1703.5	1703.5	1699.3	1705.5	*1707.7*
12.5°	1686.5	1686.5	1684.3	1688.5	*1690.8*
15°	1667.3	1669.3	1663.1	1669.3	*1669.3*
17.5°	1643.9	1641.9	1639.7	1643.9	*1646.1*
20°	1616.2	1616.2	1610.0	1614.2	*1616.2*
22.5°	1584.3	1584.3	1582.3	1584.3	*1582.3*
25°	1550.3	1548.1	1543.9	1546.1	*1548.1*
27.5°	1509.9	1509.9	1505.7	1505.7	*1503.5*
30°	1469.5	1467.3	1461.0	1456.8	*1458.8*
32.5°	1420.6	1418.4	1412.1	1407.9	*1409.9*
35°	1369.5	1367.5	1359.0	1352.5	*1350.5*
37.5°	1318.6	1312.1	1301.4	1292.9	*1284.4*
40°	1254.7	1248.3	1237.8	1218.6	*1216.3*
42.5°	1190.9	1184.6	1167.4	1144.2	*1137.8*
45°	1122.8	1116.5	1086.6	1050.5	*1042.0*
47.5°	1050.5	1040.0	993.1	948.4	*931.5*
50°	969.9	950.7	895.3	837.9	*818.7*
52.5°	891.0	857.1	784.8	733.6	*714.7*
55°	797.5	757.1	678.5	640.1	*629.4*
57.5°	714.7	659.3	595.4	557.3	*548.8*
60°	618.9	567.8	516.9	482.7	*470.0*
62.5°	531.6	486.9	444.5	414.6	*399.9*
65°	448.8	412.6	378.7	348.7	*338.2*
67.5°	367.9	348.7	321.1	297.8	*291.4*
70°	299.8	289.1	270.1	259.4	*250.9*
72.5°	238.2	242.5	229.7	225.5	*219.0*
75°	191.3	193.6	195.6	189.3	*185.1*
77.5°	144.7	155.2	163.7	159.4	*155.2*
80°	108.5	119.0	134.0	127.7	*127.7*
82.5°	74.3	87.3	100.0	95.8	*93.5*
85°	42.6	55.4	68.1	63.9	*59.6*
87.5°	17.0	27.7	29.7	29.7	*27.7*
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	13.8	15.4	14.2	15.7	16.0	12.5	14.1	12.9	14.4	14.7
	3H	15.1	16.5	15.4	16.8	17.1	13.8	15.2	14.2	15.5	15.9
	4H	15.5	16.8	15.9	17.1	17.5	14.3	15.7	14.7	16.0	16.4
	6H	15.8	17.0	16.2	17.3	17.7	14.8	16.1	15.3	16.4	16.8
	8H	15.8	17.0	16.3	17.4	17.8	15.0	16.2	15.5	16.6	17.0
	12H	15.9	17.0	16.3	17.4	17.8	15.2	16.3	15.6	16.7	17.1
4H	2H	14.1	15.5	14.5	15.8	16.2	13.1	14.4	13.5	14.7	15.1
	3H	15.6	16.7	16.0	17.1	17.5	14.6	15.6	15.0	16.0	16.4
	4H	16.1	17.1	16.6	17.5	18.0	15.2	16.2	15.7	16.6	17.1
	6H	16.6	17.4	17.0	17.9	18.3	15.9	16.7	16.3	17.2	17.6
	8H	16.7	17.5	17.2	17.9	18.4	16.1	16.9	16.6	17.4	17.9
	12H	16.8	17.5	17.3	18.0	18.5	16.3	17.1	16.8	17.5	18.0
8H	4H	16.4	17.2	16.8	17.6	18.1	15.5	16.3	16.0	16.8	17.3
	6H	16.9	17.6	17.4	18.1	18.5	16.3	17.0	16.8	17.5	18.0
	8H	17.1	17.7	17.6	18.2	18.7	16.7	17.3	17.2	17.8	18.3
	12H	17.3	17.8	17.8	18.3	18.9	17.0	17.5	17.5	18.0	18.6
12H	4H	16.4	17.1	16.9	17.6	18.0	15.6	16.3	16.1	16.8	17.2
	6H	17.0	17.6	17.5	18.0	18.6	16.4	17.0	16.9	17.5	18.0
	8H	17.2	17.8	17.7	18.3	18.8	16.8	17.4	17.3	17.8	18.4

(END OF REPORT)