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: P1471757

Luminaire Tested: 24PTR-20S-PW1-L835-UNV-STD-B

Issue Date: 6/22/2026

Test Information

Test Method:	LM-79-2019
Report Number:	P1471757
	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-20S-PW1-L835-UNV-STD-B
Description:	2000 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:	1769.8 lumens
Efficiency:	N/A
Efficacy:	106.0 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):	16.7
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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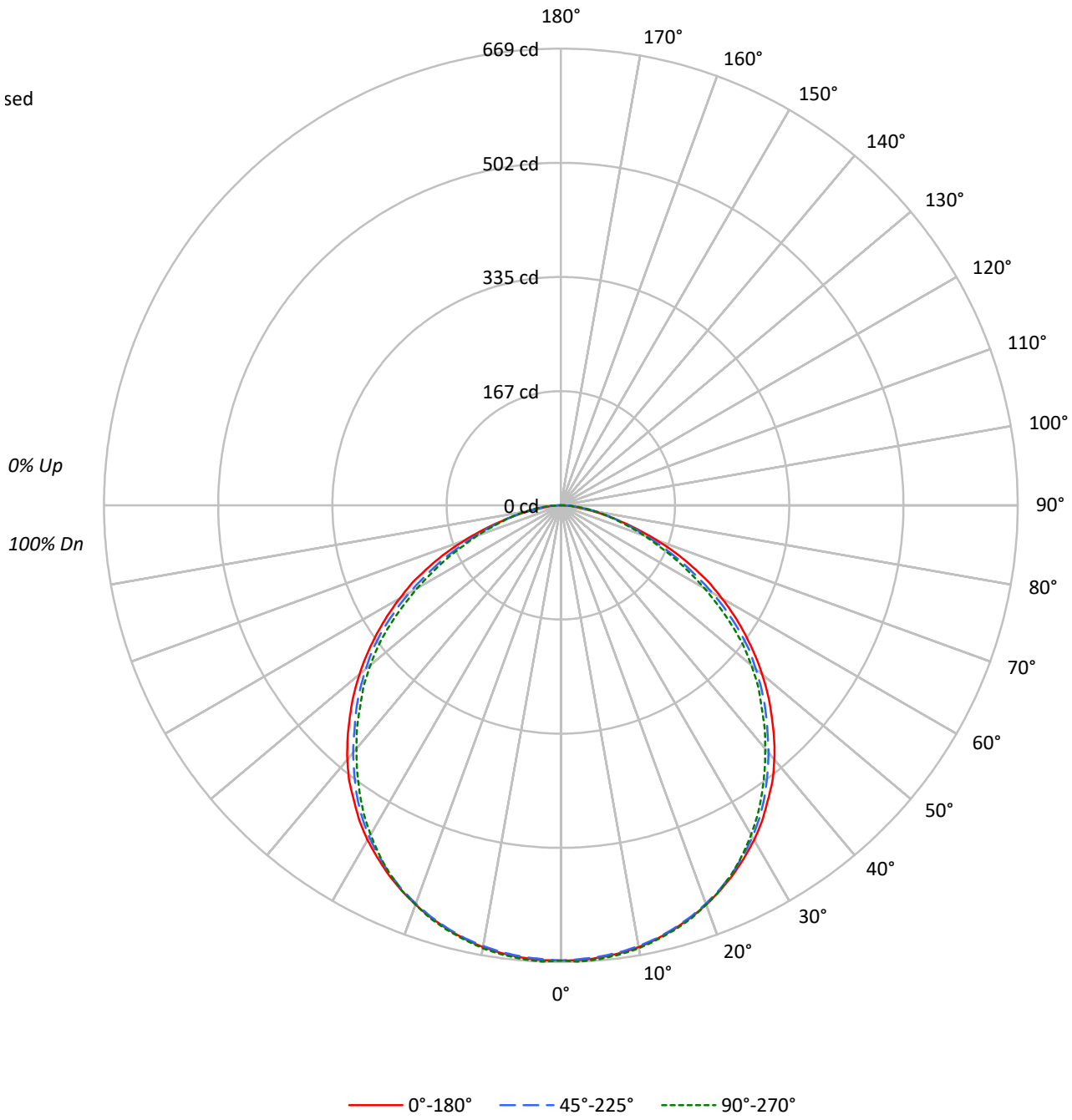
Luminous Intensity Polar Plot



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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	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°	897	897	897
5°	898	896	901
10°	898	896	900
15°	895	894	897
20°	891	889	891
25°	886	883	882
30°	880	872	866
35°	868	855	844
40°	854	831	818
45°	831	806	790
50°	806	780	761
55°	772	746	716
60°	732	689	653
65°	677	615	585
70°	587	535	515
75°	469	459	446
80°	356	398	398
85°	264	340	340

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 831 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.2	3.6
10°-20°	181.4	10.3
20°-30°	274.2	15.5
30°-40°	325.5	18.4
40°-50°	328.0	18.5
50°-60°	283.5	16.0
60°-70°	193.7	10.9
70°-80°	95.6	5.4
80°-90°	24.7	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°	518.8	29.3
0°-40°	844.3	47.7
0°-60°	1455.8	82.3
0°-90°	1769.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1769.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	667	667	667	667	667	
5°	665	665	664	666	667	63
15°	642	643	642	644	644	181
25°	597	596	594	595	594	275
35°	528	526	520	516	514	331
45°	437	432	424	419	415	337
55°	329	328	318	309	305	294
65°	213	205	193	185	184	210
75°	90	89	88	88	86	98
85°	17	20	22	22	22	21
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	666.9	666.9	666.9	666.9	*666.9*
2.5°	*666.7*	*666.9*	*665.2*	*668.1*	*668.9*
5°	664.9	665.2	663.5	666.2	*666.9*
7.5°	661.8	662.2	660.2	662.9	*663.5*
10°	657.0	657.3	655.6	658.3	*658.8*
12.5°	650.6	650.8	649.4	651.8	*651.8*
15°	642.5	643.2	641.5	643.7	*643.9*
17.5°	633.3	633.6	631.9	634.3	*634.8*
20°	622.4	622.4	621.0	623.0	*622.4*
22.5°	610.3	610.3	608.6	609.6	*610.0*
25°	597.0	596.5	594.5	595.0	*594.1*
27.5°	581.7	581.7	578.2	578.2	*576.5*
30°	566.1	564.9	561.2	558.9	*557.2*
32.5°	548.3	546.6	541.9	537.9	*536.7*
35°	528.3	526.5	520.3	515.7	*513.7*
37.5°	509.0	505.1	496.9	492.2	*490.0*
40°	486.5	481.5	473.2	466.7	*465.7*
42.5°	462.3	458.4	447.5	442.8	*441.6*
45°	436.7	431.9	423.7	418.8	*415.1*
47.5°	411.4	407.9	398.6	392.7	*391.4*
50°	384.9	382.0	372.4	366.0	*363.7*
52.5°	357.5	355.6	347.4	339.2	*336.5*
55°	329.2	328.2	318.0	308.6	*305.4*
57.5°	301.2	300.0	287.3	276.5	*273.5*
60°	272.1	268.4	256.0	245.8	*242.6*
62.5°	244.4	236.5	223.1	215.2	*211.5*
65°	212.7	205.1	193.2	184.8	*183.6*
67.5°	181.6	172.5	163.3	158.1	*154.2*
70°	149.2	143.0	136.1	131.7	*131.0*
72.5°	119.1	114.7	111.2	108.5	*106.2*
75°	90.2	89.4	88.2	88.2	*85.8*
77.5°	66.3	68.0	69.0	68.7	*69.2*
80°	46.0	49.4	51.4	51.6	*51.4*
82.5°	29.2	33.1	36.4	36.8	*37.4*
85°	17.1	20.0	22.0	22.4	*22.0*
87.5°	7.6	9.6	10.1	10.6	*10.1*
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	11.3	12.9	11.7	13.2	13.5	10.7	12.3	11.1	12.6	12.9
	3H	12.8	14.2	13.2	14.5	14.9	12.1	13.5	12.5	13.9	14.2
	4H	13.2	14.6	13.6	14.9	15.3	12.6	13.9	13.0	14.3	14.7
	6H	13.5	14.7	13.9	15.1	15.5	12.9	14.2	13.3	14.6	14.9
	8H	13.5	14.7	14.0	15.1	15.5	13.1	14.2	13.5	14.6	15.0
	12H	13.6	14.7	14.0	15.1	15.5	13.1	14.3	13.6	14.7	15.1
4H	2H	11.8	13.1	12.2	13.5	13.8	11.3	12.6	11.7	13.0	13.4
	3H	13.4	14.5	13.8	14.9	15.3	12.9	14.0	13.3	14.4	14.8
	4H	14.0	15.0	14.4	15.4	15.8	13.5	14.5	13.9	14.9	15.3
	6H	14.3	15.2	14.8	15.7	16.1	13.9	14.8	14.4	15.3	15.7
	8H	14.4	15.2	14.9	15.7	16.2	14.1	14.9	14.5	15.4	15.8
	12H	14.5	15.2	15.0	15.7	16.2	14.2	14.9	14.7	15.4	15.9
8H	4H	14.2	15.0	14.6	15.4	15.9	13.7	14.5	14.2	15.0	15.4
	6H	14.6	15.3	15.1	15.8	16.3	14.3	15.0	14.8	15.4	15.9
	8H	14.8	15.4	15.3	15.9	16.4	14.5	15.1	15.0	15.6	16.1
	12H	14.9	15.4	15.4	15.9	16.5	14.7	15.2	15.2	15.7	16.3
12H	4H	14.2	14.9	14.6	15.4	15.9	13.7	14.5	14.2	14.9	15.4
	6H	14.6	15.3	15.2	15.7	16.3	14.3	14.9	14.8	15.4	15.9
	8H	14.8	15.4	15.3	15.9	16.4	14.6	15.1	15.1	15.6	16.2

(END OF REPORT)