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: P1471746

Luminaire Tested: 24PTR-20S-PB1-L835-UNV-STD-W

Issue Date: 6/22/2026

Test Information

Test Method:	LM-79-2019
Report Number:	P1471746
	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-20S-PB1-L835-UNV-STD-W
Description:	2000 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:	2010.1 lumens
Efficiency:	N/A
Efficacy:	120.4 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):	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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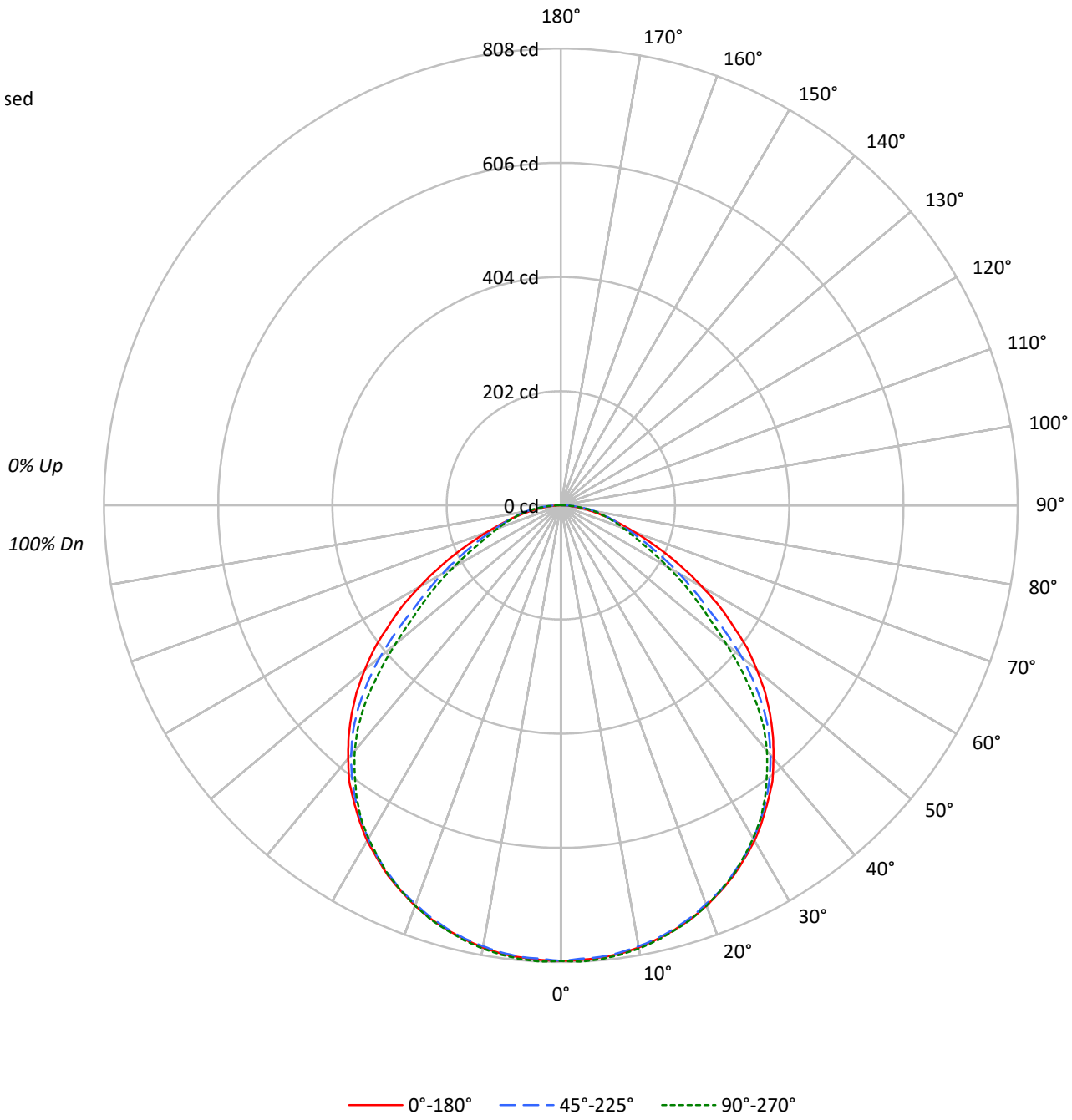
Luminous Intensity Polar Plot



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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	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°	1085	1085	1085
5°	1085	1083	1089
10°	1085	1082	1088
15°	1083	1080	1084
20°	1079	1075	1079
25°	1073	1069	1072
30°	1065	1058	1057
35°	1049	1041	1034
40°	1028	1014	996
45°	996	964	924
50°	947	874	799
55°	872	742	688
60°	777	649	590
65°	666	562	502
70°	550	496	460
75°	464	474	449
80°	392	484	461
85°	307	489	429

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 996 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.4	3.8
10°-20°	219.3	10.9
20°-30°	332.2	16.5
30°-40°	395.9	19.7
40°-50°	387.1	19.3
50°-60°	292.8	14.6
60°-70°	179.9	9.0
70°-80°	95.8	4.8
80°-90°	30.6	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°	628.0	31.2
0°-40°	1023.9	50.9
0°-60°	1703.8	84.8
0°-90°	2010.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2010.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	806	806	806	806	806	
5°	803	804	802	805	806	76
15°	777	778	775	778	778	219
25°	723	722	720	721	722	333
35°	638	638	634	631	630	399
45°	524	521	507	490	486	403
55°	372	353	316	298	294	333
65°	209	192	177	163	158	208
75°	89	90	91	88	86	96
85°	20	26	32	30	28	24
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	806.1	806.1	806.1	806.1	*806.1*
2.5°	*805.2*	*806.1*	*803.1*	*807.2*	*808.1*
5°	803.1	804.2	802.2	805.2	*806.1*
7.5°	800.2	800.2	798.2	801.1	*802.2*
10°	794.3	794.3	792.3	795.2	*796.2*
12.5°	786.4	786.4	785.3	787.3	*788.3*
15°	777.4	778.3	775.4	778.3	*778.3*
17.5°	766.5	765.5	764.5	766.5	*767.5*
20°	753.6	753.6	750.7	752.6	*753.6*
22.5°	738.7	738.7	737.7	738.7	*737.7*
25°	722.9	721.8	719.8	720.9	*721.8*
27.5°	704.0	704.0	702.0	702.0	*701.0*
30°	685.2	684.1	681.2	679.2	*680.2*
32.5°	662.4	661.3	658.4	656.4	*657.4*
35°	638.5	637.6	633.6	630.6	*629.7*
37.5°	614.8	611.8	606.8	602.8	*598.9*
40°	585.0	582.0	577.1	568.2	*567.1*
42.5°	555.3	552.3	544.3	533.5	*530.5*
45°	523.5	520.6	506.6	489.8	*485.8*
47.5°	489.8	484.9	463.0	442.2	*434.3*
50°	452.2	443.2	417.4	390.7	*381.7*
52.5°	415.5	399.6	365.9	342.1	*333.2*
55°	371.8	353.0	316.4	298.4	*293.5*
57.5°	333.2	307.4	277.6	259.8	*255.9*
60°	288.6	264.7	241.0	225.1	*219.1*
62.5°	247.9	227.0	207.3	193.3	*186.4*
65°	209.2	192.4	176.6	162.6	*157.7*
67.5°	171.6	162.6	149.7	138.9	*135.8*
70°	139.8	134.8	126.0	121.0	*117.0*
72.5°	111.1	113.1	107.1	105.1	*102.1*
75°	89.2	90.3	91.2	88.3	*86.3*
77.5°	67.5	72.3	76.3	74.3	*72.3*
80°	50.6	55.5	62.5	59.5	*59.5*
82.5°	34.7	40.7	46.6	44.7	*43.6*
85°	19.9	25.8	31.7	29.8	*27.8*
87.5°	7.9	12.9	13.8	13.8	*12.9*
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	11.2	12.7	11.5	13.0	13.4	9.9	11.4	10.2	11.8	12.1
	3H	12.4	13.8	12.8	14.1	14.5	11.1	12.5	11.5	12.9	13.2
	4H	12.8	14.1	13.2	14.5	14.9	11.7	13.0	12.1	13.4	13.7
	6H	13.1	14.3	13.5	14.7	15.1	12.2	13.4	12.6	13.8	14.2
	8H	13.2	14.4	13.6	14.7	15.1	12.4	13.5	12.8	13.9	14.3
	12H	13.2	14.4	13.7	14.7	15.2	12.5	13.6	13.0	14.0	14.4
4H	2H	11.5	12.8	11.9	13.2	13.5	10.4	11.7	10.8	12.1	12.4
	3H	12.9	14.0	13.4	14.4	14.8	11.9	13.0	12.3	13.4	13.8
	4H	13.5	14.5	13.9	14.9	15.3	12.6	13.6	13.0	14.0	14.4
	6H	13.9	14.8	14.4	15.2	15.7	13.2	14.1	13.7	14.5	15.0
	8H	14.1	14.9	14.5	15.3	15.8	13.5	14.3	14.0	14.7	15.2
	12H	14.1	14.9	14.6	15.3	15.8	13.7	14.4	14.2	14.9	15.4
8H	4H	13.7	14.5	14.2	14.9	15.4	12.9	13.7	13.4	14.1	14.6
	6H	14.3	14.9	14.7	15.4	15.9	13.7	14.4	14.2	14.8	15.3
	8H	14.5	15.1	15.0	15.6	16.1	14.0	14.6	14.5	15.1	15.6
	12H	14.6	15.2	15.1	15.6	16.2	14.3	14.9	14.8	15.3	15.9
12H	4H	13.7	14.4	14.2	14.9	15.4	12.9	13.6	13.4	14.1	14.6
	6H	14.3	14.9	14.8	15.4	15.9	13.8	14.4	14.3	14.8	15.4
	8H	14.6	15.1	15.1	15.6	16.2	14.2	14.7	14.7	15.2	15.8

(END OF REPORT)