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: P1471677

Luminaire Tested: 14PTR-42S-PW1-L835-UNV-STD-B

Issue Date: 6/22/2026

Test Information

Test Method:	LM-79-2019
Report Number:	P1471677
	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:	14PTR-42S-PW1-L835-UNV-STD-B
Description:	4200 LUMEN 1X4 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:	3101.1 lumens
Efficiency:	N/A
Efficacy:	97.8 lumens/watt
Spacing Criteria (0/90/45):	1.26 / 1.24 / 1.34
Luminous Opening:	Rectangular (W 1' x L: 4' x H: 0')
CIE Type:	Direct
Input Watts (W):	31.7
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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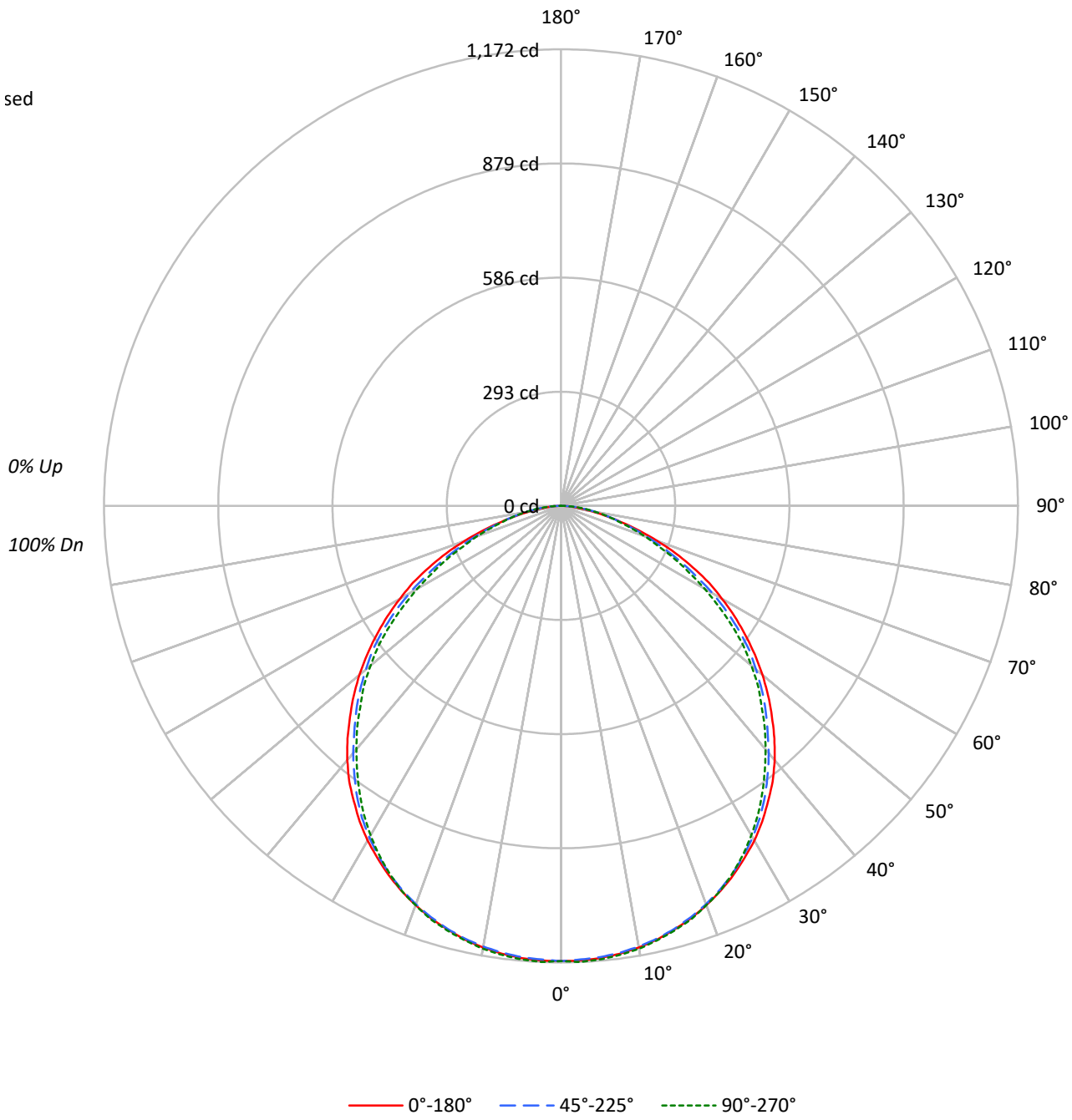
Luminous Intensity Polar Plot



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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°	3144	3144	3144
5°	3147	3140	3156
10°	3146	3139	3154
15°	3136	3131	3143
20°	3123	3116	3123
25°	3106	3093	3091
30°	3082	3055	3034
35°	3041	2995	2957
40°	2994	2913	2867
45°	2912	2826	2768
50°	2824	2732	2668
55°	2706	2615	2510
60°	2566	2414	2288
65°	2373	2156	2049
70°	2057	1876	1806
75°	1643	1606	1563
80°	1249	1395	1395
85°	923	1189	1189

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2912 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.8	3.6
10°-20°	317.9	10.3
20°-30°	480.4	15.5
30°-40°	570.4	18.4
40°-50°	574.7	18.5
50°-60°	496.7	16.0
60°-70°	339.5	10.9
70°-80°	167.4	5.4
80°-90°	43.3	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°	909.1	29.3
0°-40°	1479.5	47.7
0°-60°	2550.9	82.3
0°-90°	3101.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3101.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1168	1168	1168	1168	1168	
5°	1165	1166	1163	1167	1168	111
15°	1126	1127	1124	1128	1128	318
25°	1046	1045	1042	1043	1041	482
35°	926	923	912	904	900	579
45°	765	757	742	734	727	590
55°	577	575	557	541	535	516
65°	373	359	339	324	322	368
75°	158	157	154	154	150	172
85°	30	35	38	39	38	37
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1168.5	1168.5	1168.5	1168.5	*1168.5*
2.5°	*1168.2*	*1168.5*	*1165.5*	*1170.7*	*1172.0*
5°	1165.1	1165.5	1162.6	1167.3	*1168.5*
7.5°	1159.6	1160.4	1156.9	1161.6	*1162.6*
10°	1151.2	1151.7	1148.7	1153.4	*1154.4*
12.5°	1140.1	1140.4	1137.9	1142.1	*1142.1*
15°	1125.7	1127.0	1124.0	1127.9	*1128.3*
17.5°	1109.7	1110.2	1107.2	1111.4	*1112.4*
20°	1090.7	1090.7	1088.1	1091.6	*1090.7*
22.5°	1069.4	1069.4	1066.4	1068.2	*1068.9*
25°	1046.1	1045.2	1041.7	1042.7	*1040.9*
27.5°	1019.2	1019.2	1013.1	1013.1	*1010.1*
30°	992.0	989.8	983.3	979.4	*976.4*
32.5°	960.7	957.7	949.5	942.6	*940.4*
35°	925.8	922.6	911.8	903.6	*900.1*
37.5°	891.9	885.0	870.7	862.5	*858.6*
40°	852.4	843.8	829.2	817.8	*816.1*
42.5°	810.1	803.2	784.2	775.8	*773.8*
45°	765.1	756.8	742.5	733.8	*727.4*
47.5°	720.9	714.8	698.4	688.0	*685.8*
50°	674.5	669.3	652.5	641.3	*637.4*
52.5°	626.5	623.0	608.7	594.4	*589.7*
55°	576.8	575.1	557.3	540.8	*535.1*
57.5°	527.9	525.7	503.5	484.4	*479.2*
60°	476.7	470.3	448.6	430.8	*425.1*
62.5°	428.3	414.4	391.0	377.1	*370.7*
65°	372.7	359.4	338.6	323.8	*321.8*
67.5°	318.3	302.2	286.2	277.1	*270.1*
70°	261.5	250.6	238.5	230.8	*229.6*
72.5°	208.6	200.9	194.8	190.1	*186.1*
75°	158.0	156.7	154.5	154.5	*150.3*
77.5°	116.1	119.1	120.8	120.4	*121.3*
80°	80.6	86.5	90.0	90.5	*90.0*
82.5°	51.1	58.1	63.7	64.5	*65.5*
85°	29.9	35.1	38.5	39.3	*38.5*
87.5°	13.4	16.8	17.8	18.6	*17.8*
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	15.7	17.3	16.0	17.6	17.9	15.1	16.7	15.4	17.0	17.3
	3H	17.1	18.6	17.5	18.9	19.3	16.5	17.9	16.8	18.2	18.6
	4H	17.6	18.9	18.0	19.3	19.6	16.9	18.3	17.3	18.6	19.0
	6H	17.8	19.1	18.2	19.4	19.8	17.3	18.5	17.7	18.9	19.3
	8H	17.9	19.1	18.3	19.5	19.9	17.4	18.6	17.8	19.0	19.4
	12H	17.9	19.1	18.3	19.4	19.9	17.5	18.6	17.9	19.0	19.4
4H	2H	16.1	17.5	16.5	17.8	18.2	15.6	17.0	16.0	17.3	17.7
	3H	17.8	18.9	18.2	19.3	19.7	17.2	18.3	17.6	18.7	19.1
	4H	18.3	19.3	18.8	19.8	20.2	17.8	18.8	18.2	19.2	19.7
	6H	18.7	19.6	19.1	20.0	20.5	18.3	19.2	18.7	19.6	20.1
	8H	18.8	19.6	19.2	20.0	20.5	18.4	19.3	18.9	19.7	20.2
	12H	18.8	19.6	19.3	20.1	20.5	18.6	19.3	19.0	19.8	20.2
8H	4H	18.5	19.3	19.0	19.8	20.2	18.0	18.9	18.5	19.3	19.8
	6H	19.0	19.7	19.5	20.1	20.6	18.6	19.3	19.1	19.8	20.3
	8H	19.1	19.7	19.6	20.2	20.7	18.8	19.5	19.4	20.0	20.5
	12H	19.2	19.8	19.7	20.3	20.8	19.0	19.6	19.5	20.1	20.6
12H	4H	18.5	19.3	19.0	19.7	20.2	18.1	18.8	18.5	19.3	19.8
	6H	19.0	19.6	19.5	20.1	20.6	18.7	19.3	19.2	19.7	20.3
	8H	19.2	19.7	19.7	20.2	20.8	18.9	19.5	19.4	20.0	20.5

(END OF REPORT)