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: P1471665

Luminaire Tested: 14PTR-42S-PB1-L835-UNV-STD-B

Issue Date: 6/22/2026

Test Information

Test Method:	LM-79-2019
Report Number:	P1471665
	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:	14PTR-42S-PB1-L835-UNV-STD-B
Description:	4200 LUMEN 1X4 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:	3040.2 lumens
Efficiency:	N/A
Efficacy:	95.9 lumens/watt
Spacing Criteria (0/90/45):	1.26 / 1.25 / 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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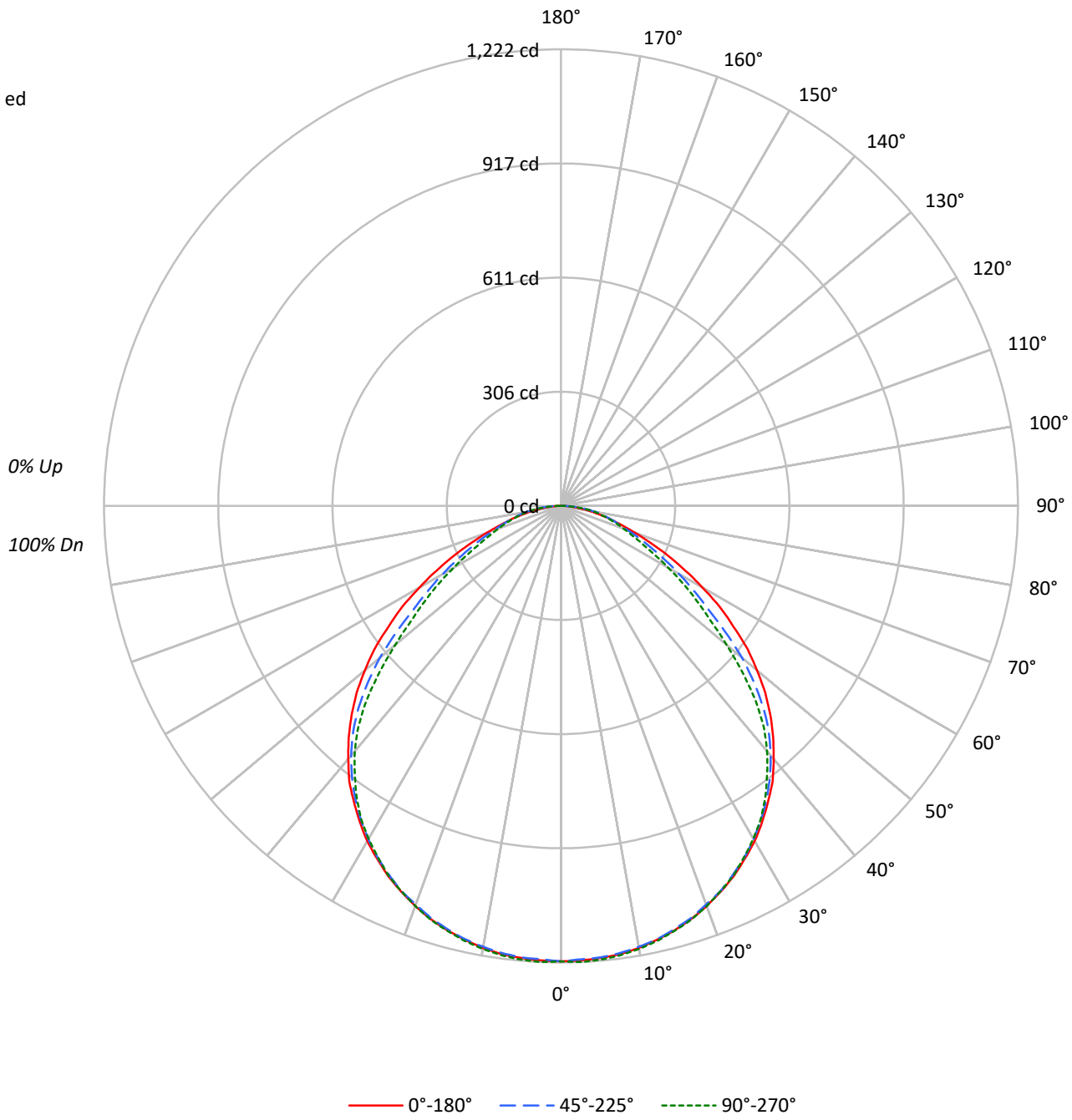
Luminous Intensity Polar Plot



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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	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°	3281	3281	3281
5°	3281	3277	3293
10°	3283	3274	3291
15°	3276	3267	3280
20°	3264	3251	3264
25°	3246	3233	3241
30°	3220	3201	3196
35°	3173	3148	3129
40°	3108	3066	3013
45°	3013	2916	2796
50°	2863	2643	2417
55°	2639	2245	2082
60°	2349	1962	1784
65°	2015	1700	1519
70°	1663	1499	1393
75°	1403	1434	1357
80°	1185	1464	1396
85°	929	1482	1297

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3013 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.6	3.8
10°-20°	331.7	10.9
20°-30°	502.5	16.5
30°-40°	598.7	19.7
40°-50°	585.5	19.3
50°-60°	442.9	14.6
60°-70°	272.1	8.9
70°-80°	145.0	4.8
80°-90°	46.2	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°	949.8	31.2
0°-40°	1548.6	50.9
0°-60°	2577.0	84.8
0°-90°	3040.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3040.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1219	1219	1219	1219	1219	
5°	1215	1216	1213	1218	1219	116
15°	1176	1177	1173	1177	1177	332
25°	1093	1092	1089	1090	1092	503
35°	966	964	958	954	952	604
45°	792	787	766	741	735	609
55°	562	534	478	451	444	504
65°	316	291	267	246	238	315
75°	135	136	138	134	130	145
85°	30	39	48	45	42	36
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1219.2	1219.2	1219.2	1219.2	*1219.2*
2.5°	*1217.8*	*1219.2*	*1214.7*	*1220.8*	*1222.2*
5°	1214.7	1216.3	1213.3	1217.8	*1219.2*
7.5°	1210.3	1210.3	1207.3	1211.7	*1213.3*
10°	1201.3	1201.3	1198.3	1202.7	*1204.3*
12.5°	1189.3	1189.3	1187.8	1190.8	*1192.3*
15°	1175.8	1177.2	1172.8	1177.2	*1177.2*
17.5°	1159.3	1157.8	1156.3	1159.3	*1160.8*
20°	1139.7	1139.7	1135.3	1138.3	*1139.7*
22.5°	1117.2	1117.2	1115.8	1117.2	*1115.8*
25°	1093.3	1091.7	1088.7	1090.3	*1091.7*
27.5°	1064.8	1064.8	1061.8	1061.8	*1060.2*
30°	1036.3	1034.7	1030.3	1027.3	*1028.7*
32.5°	1001.8	1000.2	995.8	992.8	*994.3*
35°	965.8	964.3	958.4	953.8	*952.4*
37.5°	929.9	925.3	917.7	911.8	*905.8*
40°	884.8	880.3	872.9	859.3	*857.8*
42.5°	839.8	835.4	823.3	806.9	*802.3*
45°	791.8	787.4	766.3	740.8	*734.8*
47.5°	740.8	733.4	700.3	668.8	*656.9*
50°	683.9	670.4	631.4	590.9	*577.3*
52.5°	628.4	604.4	553.4	517.4	*504.0*
55°	562.4	533.9	478.5	451.4	*443.8*
57.5°	504.0	464.9	419.9	393.0	*387.0*
60°	436.4	400.4	364.5	340.4	*331.4*
62.5°	374.9	343.4	313.5	292.4	*282.0*
65°	316.5	291.0	267.0	245.9	*238.5*
67.5°	259.5	245.9	226.4	210.0	*205.5*
70°	211.4	203.9	190.5	183.0	*177.0*
72.5°	168.0	171.0	162.0	159.0	*154.5*
75°	134.9	136.5	137.9	133.5	*130.5*
77.5°	102.0	109.4	115.4	112.4	*109.4*
80°	76.5	83.9	94.5	90.1	*90.1*
82.5°	52.4	61.6	70.5	67.5	*66.0*
85°	30.1	39.0	48.0	45.0	*42.0*
87.5°	12.0	19.5	20.9	20.9	*19.5*
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	15.0	16.6	15.4	16.9	17.2	13.7	15.3	14.1	15.6	15.9
	3H	16.3	17.6	16.6	18.0	18.3	15.0	16.4	15.4	16.7	17.1
	4H	16.7	18.0	17.1	18.3	18.7	15.5	16.9	15.9	17.2	17.6
	6H	17.0	18.2	17.4	18.5	18.9	16.0	17.2	16.4	17.6	18.0
	8H	17.0	18.2	17.5	18.6	19.0	16.2	17.4	16.7	17.8	18.2
	12H	17.1	18.2	17.5	18.6	19.0	16.4	17.5	16.8	17.9	18.3
4H	2H	15.3	16.6	15.7	17.0	17.4	14.3	15.6	14.7	15.9	16.3
	3H	16.8	17.9	17.2	18.3	18.7	15.8	16.8	16.2	17.2	17.6
	4H	17.3	18.3	17.8	18.7	19.2	16.4	17.4	16.9	17.8	18.3
	6H	17.8	18.6	18.2	19.1	19.5	17.1	17.9	17.5	18.4	18.8
	8H	17.9	18.7	18.4	19.1	19.6	17.3	18.1	17.8	18.6	19.0
	12H	18.0	18.7	18.5	19.2	19.7	17.5	18.3	18.0	18.7	19.2
8H	4H	17.5	18.3	18.0	18.8	19.3	16.7	17.5	17.2	18.0	18.5
	6H	18.1	18.8	18.6	19.2	19.7	17.5	18.2	18.0	18.7	19.2
	8H	18.3	18.9	18.8	19.4	19.9	17.9	18.5	18.4	19.0	19.5
	12H	18.5	19.0	19.0	19.5	20.1	18.2	18.7	18.7	19.2	19.8
12H	4H	17.6	18.3	18.1	18.8	19.2	16.8	17.5	17.3	18.0	18.4
	6H	18.2	18.8	18.7	19.2	19.8	17.6	18.2	18.1	18.7	19.2
	8H	18.4	19.0	18.9	19.4	20.0	18.0	18.6	18.5	19.0	19.6

(END OF REPORT)