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: P1471805

Luminaire Tested: 24PTR-40S-PW1-L835-UNV-STD-B

Issue Date: 6/22/2026

Test Information

Test Method:	LM-79-2019
Report Number:	P1471805
	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-40S-PW1-L835-UNV-STD-B
Description:	4000 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:	3178.0 lumens
Efficiency:	N/A
Efficacy:	104.9 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):	30.3
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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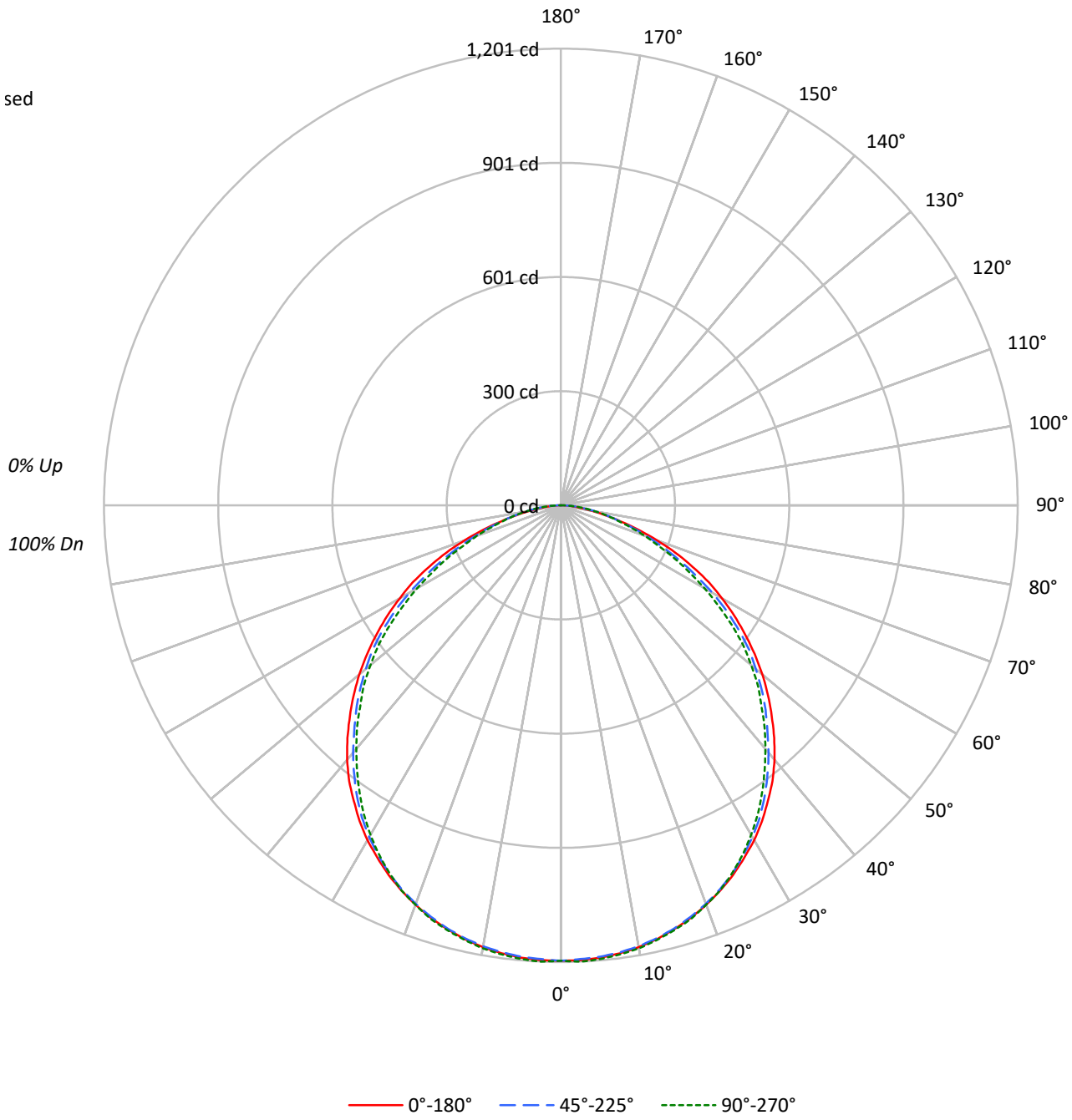
Luminous Intensity Polar Plot



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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°	1611	1611	1611
5°	1613	1609	1617
10°	1612	1608	1616
15°	1607	1605	1611
20°	1600	1597	1600
25°	1592	1585	1584
30°	1579	1566	1555
35°	1558	1535	1515
40°	1534	1492	1469
45°	1492	1448	1418
50°	1447	1400	1367
55°	1387	1340	1286
60°	1315	1237	1172
65°	1216	1105	1050
70°	1054	961	925
75°	842	823	801
80°	640	714	714
85°	472	610	610

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 1492 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.6	3.6
10°-20°	325.7	10.2
20°-30°	492.3	15.5
30°-40°	584.6	18.4
40°-50°	588.9	18.5
50°-60°	509.1	16.0
60°-70°	347.9	10.9
70°-80°	171.6	5.4
80°-90°	44.4	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°	931.6	29.3
0°-40°	1516.1	47.7
0°-60°	2614.1	82.3
0°-90°	3178.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3178.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1198	1198	1198	1198	1198	
5°	1194	1194	1191	1196	1198	114
15°	1154	1155	1152	1156	1156	326
25°	1072	1071	1068	1068	1067	494
35°	949	946	934	926	922	594
45°	784	776	761	752	745	605
55°	591	589	571	554	548	528
65°	382	368	347	332	330	377
75°	162	161	158	158	154	176
85°	31	36	40	40	40	38
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1197.5	1197.5	1197.5	1197.5	*1197.5*
2.5°	*1197.2*	*1197.5*	*1194.4*	*1199.8*	*1201.1*
5°	1194.0	1194.4	1191.4	1196.2	*1197.5*
7.5°	1188.3	1189.1	1185.6	1190.4	*1191.4*
10°	1179.8	1180.3	1177.2	1182.0	*1183.0*
12.5°	1168.3	1168.7	1166.1	1170.4	*1170.4*
15°	1153.7	1154.9	1151.9	1155.9	*1156.2*
17.5°	1137.2	1137.7	1134.6	1139.0	*1140.0*
20°	1117.7	1117.7	1115.1	1118.7	*1117.7*
22.5°	1095.9	1095.9	1092.9	1094.6	*1095.4*
25°	1072.1	1071.1	1067.6	1068.5	*1066.7*
27.5°	1044.5	1044.5	1038.2	1038.2	*1035.1*
30°	1016.6	1014.3	1007.7	1003.7	*1000.6*
32.5°	984.5	981.5	973.1	966.0	*963.7*
35°	948.7	945.5	934.4	926.0	*922.4*
37.5°	914.1	907.0	892.3	883.9	*879.9*
40°	873.6	864.7	849.7	838.1	*836.3*
42.5°	830.2	823.1	803.6	795.1	*793.0*
45°	784.1	775.6	760.9	752.0	*745.4*
47.5°	738.8	732.5	715.7	705.1	*702.8*
50°	691.2	685.9	668.7	657.2	*653.2*
52.5°	642.0	638.5	623.8	609.2	*604.3*
55°	591.1	589.3	571.1	554.2	*548.4*
57.5°	541.0	538.7	516.0	496.5	*491.1*
60°	488.6	481.9	459.7	441.5	*435.7*
62.5°	438.9	424.7	400.7	386.5	*379.9*
65°	382.0	368.3	347.0	331.8	*329.7*
67.5°	326.2	309.7	293.3	283.9	*276.8*
70°	268.0	256.9	244.4	236.5	*235.2*
72.5°	213.8	205.9	199.6	194.8	*190.7*
75°	161.9	160.6	158.3	158.3	*154.0*
77.5°	119.0	122.1	123.8	123.3	*124.3*
80°	82.6	88.7	92.2	92.7	*92.2*
82.5°	52.4	59.5	65.3	66.1	*67.1*
85°	30.6	36.0	39.5	40.3	*39.5*
87.5°	13.7	17.3	18.2	19.0	*18.2*
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	13.3	14.9	13.7	15.3	15.6	12.8	14.4	13.1	14.7	15.0
	3H	14.8	16.2	15.2	16.6	16.9	14.1	15.6	14.5	15.9	16.3
	4H	15.2	16.6	15.6	16.9	17.3	14.6	16.0	15.0	16.3	16.7
	6H	15.5	16.8	15.9	17.1	17.5	15.0	16.2	15.4	16.6	17.0
	8H	15.6	16.8	16.0	17.1	17.5	15.1	16.3	15.5	16.7	17.1
	12H	15.6	16.7	16.0	17.1	17.5	15.2	16.3	15.6	16.7	17.1
4H	2H	13.8	15.2	14.2	15.5	15.9	13.3	14.7	13.7	15.0	15.4
	3H	15.5	16.6	15.9	17.0	17.4	14.9	16.0	15.3	16.4	16.8
	4H	16.0	17.0	16.4	17.4	17.9	15.5	16.5	15.9	16.9	17.4
	6H	16.4	17.2	16.8	17.7	18.1	16.0	16.8	16.4	17.3	17.7
	8H	16.5	17.3	16.9	17.7	18.2	16.1	16.9	16.6	17.4	17.9
	12H	16.5	17.3	17.0	17.7	18.2	16.2	17.0	16.7	17.5	17.9
8H	4H	16.2	17.0	16.7	17.5	17.9	15.7	16.6	16.2	17.0	17.5
	6H	16.6	17.3	17.1	17.8	18.3	16.3	17.0	16.8	17.5	18.0
	8H	16.8	17.4	17.3	17.9	18.4	16.5	17.1	17.0	17.6	18.1
	12H	16.9	17.4	17.4	17.9	18.5	16.7	17.3	17.2	17.7	18.3
12H	4H	16.2	16.9	16.7	17.4	17.9	15.7	16.5	16.2	17.0	17.4
	6H	16.7	17.3	17.2	17.8	18.3	16.3	17.0	16.9	17.4	18.0
	8H	16.9	17.4	17.4	17.9	18.5	16.6	17.2	17.1	17.6	18.2

(END OF REPORT)