

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: P1471744

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

Issue Date: 6/22/2026

Test Information

Test Method: LM-79-2019
Report Number: P1471744
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2310-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 6/22/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-20S-L835-UNV-STD-B
Description: 2000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND Frosted Lens Black Recessed Frame
Light Source: -
Ballast/Driver: -

Summary

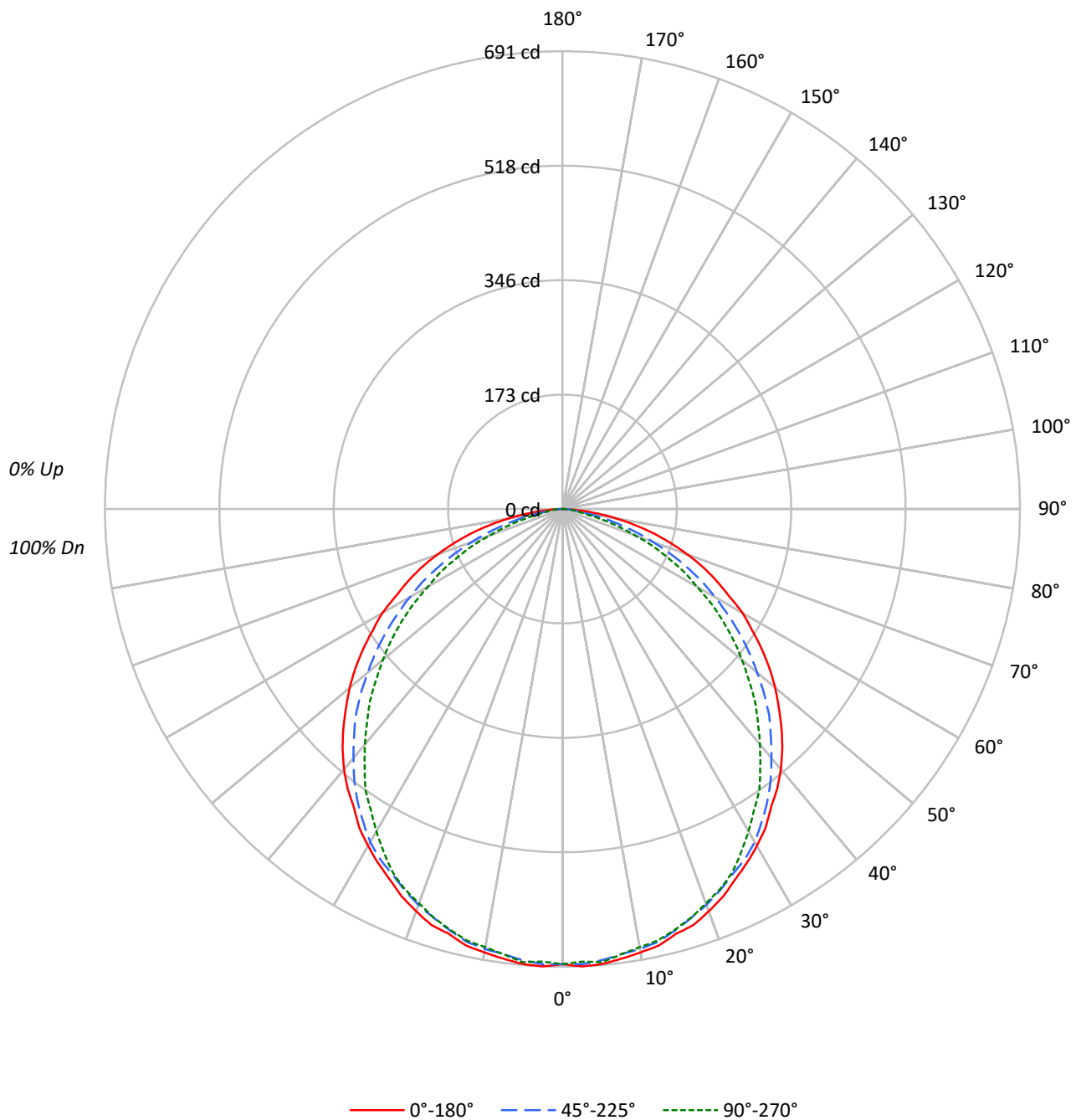
Lumens per Lamp: N/A
Luminaire Lumens: 1830.3 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1471744

CATALOG NUMBER: 24PTR-20S-L835-UNV-STD-B

Luminous Intensity Polar Plot



TEST NUMBER: P1471744

CATALOG NUMBER: 24PTR-20S-L835-UNV-STD-B

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72		72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52		52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40		40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35		35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31		31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28		28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26		26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	924	924	924
5°	931	924	927
10°	929	921	918
15°	925	917	915
20°	925	911	907
25°	916	903	900
30°	912	902	873
35°	902	886	852
40°	901	863	815
45°	890	840	783
50°	878	803	740
55°	861	765	695
60°	846	716	631
65°	817	657	564
70°	790	572	460
75°	742	451	317
80°	644	273	191
85°	429	196	184

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 890 cd/sqm

TEST NUMBER: P1471744

CATALOG NUMBER: 24PTR-20S-L835-UNV-STD-B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.1	3.6
10°-20°	186.4	10.2
20°-30°	281.5	15.4
30°-40°	334.7	18.3
40°-50°	339.5	18.5
50°-60°	294.8	16.1
60°-70°	209.3	11.4
70°-80°	100.0	5.5
80°-90°	18.9	1.0
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°	533.0	29.1
0°-40°	867.8	47.4
0°-60°	1502.0	82.1
0°-90°	1830.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1830.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	687	687	687	687	687	
5°	690	687	684	686	687	65
15°	664	665	658	658	657	188
25°	617	616	608	611	606	285
35°	549	548	539	521	518	345
45°	468	464	442	418	411	361
55°	367	356	326	307	296	328
65°	257	237	206	184	177	254
75°	143	117	87	69	61	150
85°	28	15	13	12	12	35
90°	0	0	0	0	0	

TEST NUMBER: P1471744

CATALOG NUMBER: 24PTR-20S-L835-UNV-STD-B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	687.1	687.1	687.1	687.1	687.1
2.5°	691.2	688.7	687.9	690.8	683.8
5°	689.6	687.1	683.8	685.5	686.7
7.5°	684.7	682.6	678.1	681.8	678.1
10°	679.7	677.7	674.4	675.7	671.6
12.5°	674.8	669.9	669.1	669.9	667.1
15°	663.8	665.4	658.5	657.6	657.2
17.5°	658.5	654.4	647.0	647.4	646.6
20°	646.2	641.3	636.0	635.1	633.5
22.5°	633.5	627.8	622.9	625.3	621.6
25°	617.1	616.3	608.1	610.6	606.1
27.5°	602.8	599.9	596.3	590.9	584.4
30°	587.3	584.4	580.7	566.8	561.9
32.5°	570.9	567.6	560.2	543.9	538.6
35°	549.2	548.4	539.4	521.0	518.5
37.5°	532.8	523.8	516.5	497.6	490.7
40°	513.2	508.3	491.1	473.1	464.1
42.5°	491.5	485.8	466.1	446.9	437.1
45°	467.8	463.7	441.6	418.2	411.3
47.5°	443.2	439.5	413.3	390.8	381.8
50°	419.5	415.0	383.5	361.8	353.6
52.5°	393.7	386.3	355.2	333.9	326.2
55°	367.1	356.0	326.2	306.9	296.3
57.5°	338.8	328.6	295.5	275.4	266.8
60°	314.3	300.0	266.0	245.5	234.5
62.5°	282.8	270.5	238.2	214.0	208.7
65°	256.6	237.4	206.3	184.2	177.2
67.5°	230.0	207.5	176.0	153.5	149.8
70°	200.9	177.6	145.3	123.2	117.0
72.5°	171.5	148.6	117.0	93.7	90.0
75°	142.8	116.6	86.8	68.8	61.0
77.5°	111.7	88.0	61.0	42.2	37.2
80°	83.1	59.3	35.2	25.0	24.6
82.5°	54.4	34.4	18.8	19.2	18.4
85°	27.8	14.7	12.7	12.3	11.9
87.5°	5.3	5.7	6.1	6.1	6.1
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1471744

CATALOG NUMBER: 24PTR-20S-L835-UNV-STD-B

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	11.9	13.5	12.2	13.8	14.1	10.5	12.1	10.9	12.5	12.8
	3H	13.7	15.1	14.1	15.5	15.8	11.8	13.3	12.2	13.6	14.0
	4H	14.4	15.7	14.8	16.1	16.5	12.1	13.5	12.5	13.8	14.2
	6H	14.9	16.1	15.3	16.5	16.9	12.2	13.4	12.6	13.8	14.2
	8H	15.0	16.2	15.4	16.6	17.0	12.2	13.4	12.6	13.8	14.2
	12H	15.1	16.2	15.5	16.6	17.0	12.2	13.4	12.6	13.7	14.2
4H	2H	12.3	13.6	12.7	14.0	14.4	11.2	12.6	11.6	12.9	13.3
	3H	14.3	15.4	14.7	15.8	16.2	12.7	13.8	13.1	14.2	14.6
	4H	15.1	16.1	15.5	16.5	17.0	13.0	14.0	13.4	14.4	14.9
	6H	15.7	16.6	16.1	17.0	17.5	13.1	14.0	13.6	14.5	14.9
	8H	15.9	16.7	16.3	17.1	17.6	13.2	14.0	13.6	14.4	14.9
	12H	16.0	16.7	16.4	17.2	17.6	13.2	13.9	13.7	14.4	14.9
8H	4H	15.2	16.0	15.7	16.5	16.9	13.3	14.1	13.7	14.6	15.0
	6H	15.8	16.5	16.3	17.0	17.5	13.4	14.1	13.9	14.6	15.1
	8H	16.0	16.7	16.5	17.2	17.6	13.5	14.1	14.0	14.6	15.1
	12H	16.2	16.7	16.7	17.2	17.8	13.5	14.1	14.0	14.6	15.1
12H	4H	15.2	15.9	15.7	16.4	16.9	13.3	14.0	13.8	14.5	15.0
	6H	15.8	16.4	16.3	16.9	17.4	13.5	14.1	14.0	14.5	15.1
	8H	16.0	16.6	16.5	17.1	17.6	13.5	14.1	14.0	14.6	15.1

(END OF REPORT)