

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: P1471749

Luminaire Tested: 24PTR-20S-PL1-L835-UNV-STD-B

Issue Date: 6/22/2026

Test Information

Test Method: LM-79-2019
Report Number: P1471749
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737719)
Test Lab: INNOVATION CENTER
Issue Date: 6/22/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-20S-PL1-L835-UNV-STD-B
Description: 2000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PL1 Lens Black Recess
Frame
Light Source: -
Ballast/Driver: -

Summary

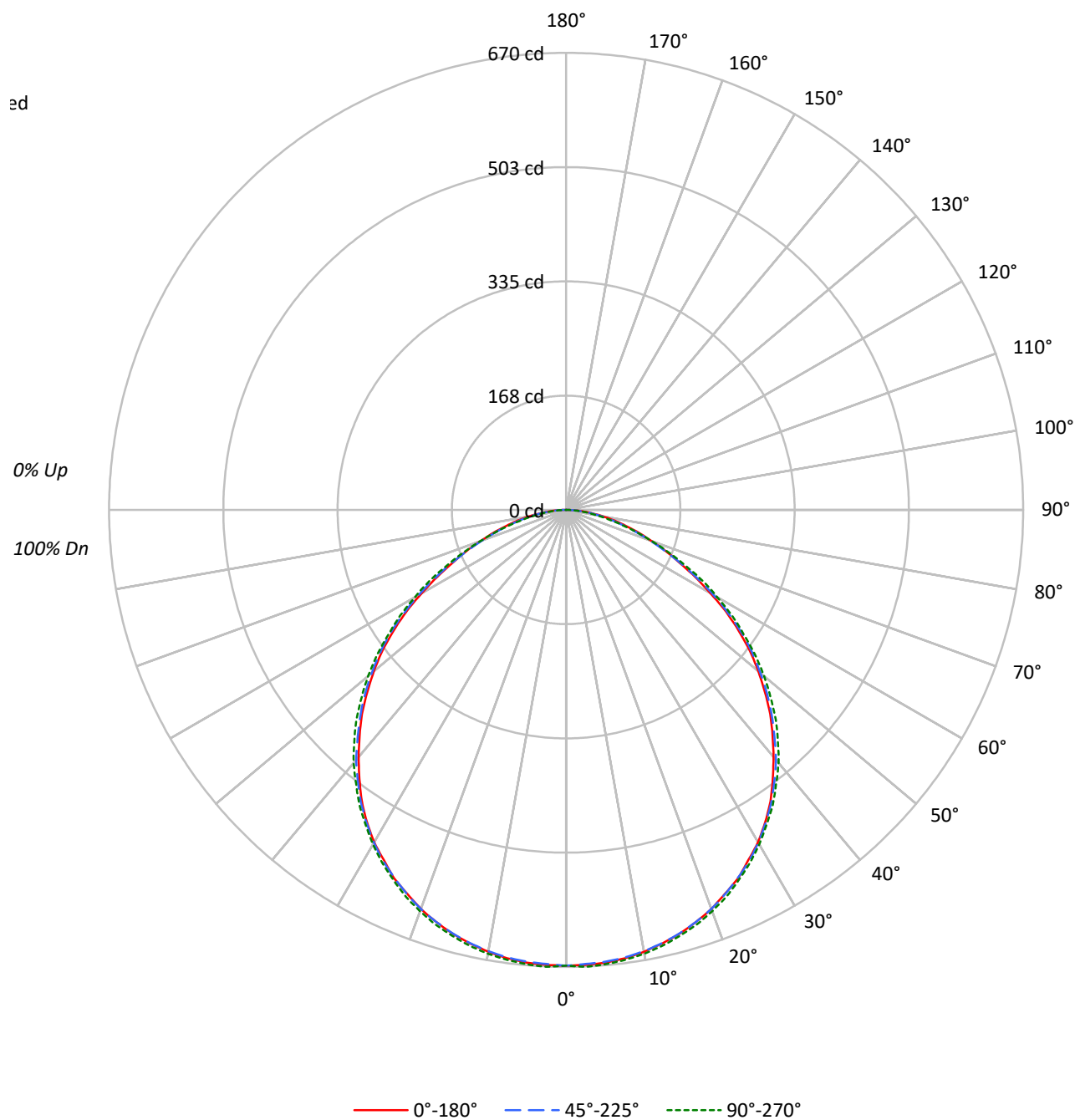
Lumens per Lamp: N/A
Luminaire Lumens: 1761.1 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	103	99	96		98	95	93		94	92	90		91	89	87
2	100	92	86	80	97	90	84	79		87	82	77		83	79	75		80	77	74
3	91	81	73	67	89	80	72	66		77	70	65		74	69	64		71	67	63
4	84	72	64	57	82	71	63	57		68	61	56		66	60	55		64	59	55
5	77	65	56	49	75	64	55	49		61	54	49		60	53	48		58	52	48
6	71	58	50	43	69	57	49	43		56	48	43		54	47	42		52	47	42
7	66	53	44	38	65	52	44	38		51	43	38		49	43	38		48	42	37
8	62	48	40	34	60	48	40	34		46	39	34		45	39	34		44	38	34
9	58	44	36	31	56	44	36	31		43	36	31		42	35	30		41	35	30
10	54	41	33	28	53	41	33	28		40	33	28		39	32	28		38	32	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	899	899	899
5°	900	898	903
10°	899	898	903
15°	896	895	900
20°	891	891	896
25°	885	884	889
30°	874	875	880
35°	857	861	868
40°	831	840	851
45°	805	812	827
50°	769	778	793
55°	725	736	745
60°	657	671	688
65°	584	590	614
70°	522	511	524
75°	471	444	435
80°	428	397	353
85°	363	329	283

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
Vertical Angle: 45°
Luminance: 827 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.4	3.6
10°-20°	181.8	10.3
20°-30°	274.9	15.6
30°-40°	327.7	18.6
40°-50°	329.5	18.7
50°-60°	279.7	15.9
60°-70°	186.2	10.6
70°-80°	93.0	5.3
80°-90°	24.9	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°	520.1	29.5
0°-40°	847.8	48.1
0°-60°	1457.0	82.7
0°-90°	1761.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1761.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	668	668	668	668	668	
5°	666	666	665	668	669	63
15°	643	644	643	646	646	181
25°	596	596	596	598	599	274
35°	522	523	524	528	528	326
45°	423	424	426	432	435	325
55°	309	311	314	317	318	275
65°	183	185	185	188	193	184
75°	91	89	85	83	84	97
85°	24	23	21	20	18	27
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	668.1	668.1	668.1	668.1	668.1
2.5°	667.6	668.1	666.3	669.5	670.4
5°	666.1	666.3	664.9	667.8	668.6
7.5°	662.9	663.2	661.6	664.9	665.3
10°	657.7	658.2	657.0	659.9	660.6
12.5°	651.0	651.7	650.5	653.7	654.3
15°	643.1	643.8	642.8	645.5	646.1
17.5°	633.4	633.9	633.4	635.9	637.3
20°	622.5	622.5	622.5	624.8	626.0
22.5°	608.9	610.2	609.6	612.6	613.9
25°	596.3	596.3	595.5	598.3	598.8
27.5°	578.7	580.7	580.5	582.9	583.5
30°	562.6	563.1	563.4	565.1	566.1
32.5°	543.1	543.5	544.3	546.8	547.0
35°	522.0	522.6	524.0	527.7	528.2
37.5°	497.6	500.3	501.5	505.5	505.9
40°	473.0	474.7	478.5	482.6	484.6
42.5°	448.0	450.0	452.2	457.9	459.7
45°	423.0	423.7	426.5	432.2	434.7
47.5°	395.3	397.6	400.0	404.9	406.5
50°	367.6	370.0	371.6	376.0	378.9
52.5°	339.6	341.9	343.6	346.3	349.3
55°	309.0	311.1	313.9	316.9	317.6
57.5°	277.7	280.2	282.0	285.1	288.4
60°	244.3	247.1	249.5	252.5	255.7
62.5°	213.2	214.3	216.9	221.8	226.5
65°	183.4	184.9	185.4	188.2	192.8
67.5°	158.7	158.7	156.4	157.4	162.6
70°	132.7	131.7	130.0	129.0	133.2
72.5°	111.6	110.4	106.7	105.0	107.2
75°	90.6	89.3	85.4	83.4	83.6
77.5°	72.8	70.8	67.5	64.1	63.4
80°	55.2	54.4	51.3	48.0	45.5
82.5°	39.1	37.4	35.6	33.6	31.7
85°	23.5	23.0	21.3	20.1	18.3
87.5°	9.6	9.6	9.2	8.6	8.2
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	10.8	12.4	11.2	12.7	13.1	11.0	12.6	11.4	12.9	13.2
	3H	12.2	13.6	12.6	14.0	14.3	12.3	13.8	12.7	14.1	14.4
	4H	12.7	14.1	13.1	14.4	14.8	12.7	14.1	13.1	14.4	14.8
	6H	13.1	14.4	13.5	14.7	15.1	13.0	14.3	13.4	14.6	15.0
	8H	13.2	14.4	13.7	14.8	15.2	13.1	14.3	13.5	14.7	15.1
	12H	13.3	14.5	13.7	14.8	15.3	13.1	14.3	13.6	14.7	15.1
4H	2H	11.3	12.7	11.7	13.0	13.4	11.5	12.8	11.9	13.1	13.5
	3H	12.9	14.0	13.3	14.4	14.8	13.0	14.1	13.4	14.5	14.9
	4H	13.5	14.5	14.0	15.0	15.4	13.5	14.5	13.9	14.9	15.4
	6H	14.0	14.9	14.5	15.4	15.8	13.9	14.8	14.4	15.2	15.7
	8H	14.2	15.0	14.7	15.5	16.0	14.0	14.8	14.5	15.3	15.7
	12H	14.3	15.1	14.8	15.6	16.0	14.1	14.8	14.6	15.3	15.8
8H	4H	13.7	14.6	14.2	15.0	15.5	13.7	14.5	14.2	15.0	15.5
	6H	14.4	15.0	14.9	15.5	16.0	14.2	14.9	14.7	15.4	15.9
	8H	14.6	15.2	15.1	15.7	16.2	14.4	15.0	14.9	15.5	16.0
	12H	14.8	15.3	15.3	15.8	16.4	14.5	15.1	15.0	15.6	16.1
12H	4H	13.8	14.5	14.2	15.0	15.4	13.7	14.5	14.2	15.0	15.4
	6H	14.4	15.0	14.9	15.5	16.0	14.3	14.9	14.8	15.3	15.9
	8H	14.7	15.2	15.2	15.7	16.3	14.5	15.0	15.0	15.5	16.1

(END OF REPORT)