

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: P1471751

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

Issue Date: 6/22/2026

Test Information

Test Method: LM-79-2019
Report Number: P1471751
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2409-224-3)
Test Lab: INNOVATION CENTER
Issue Date: 6/22/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-20S-PLG-L835-UNV-STD-B
Description: 2000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PLG Lens Black Recess Frame
Light Source: -
Ballast/Driver: -

Summary

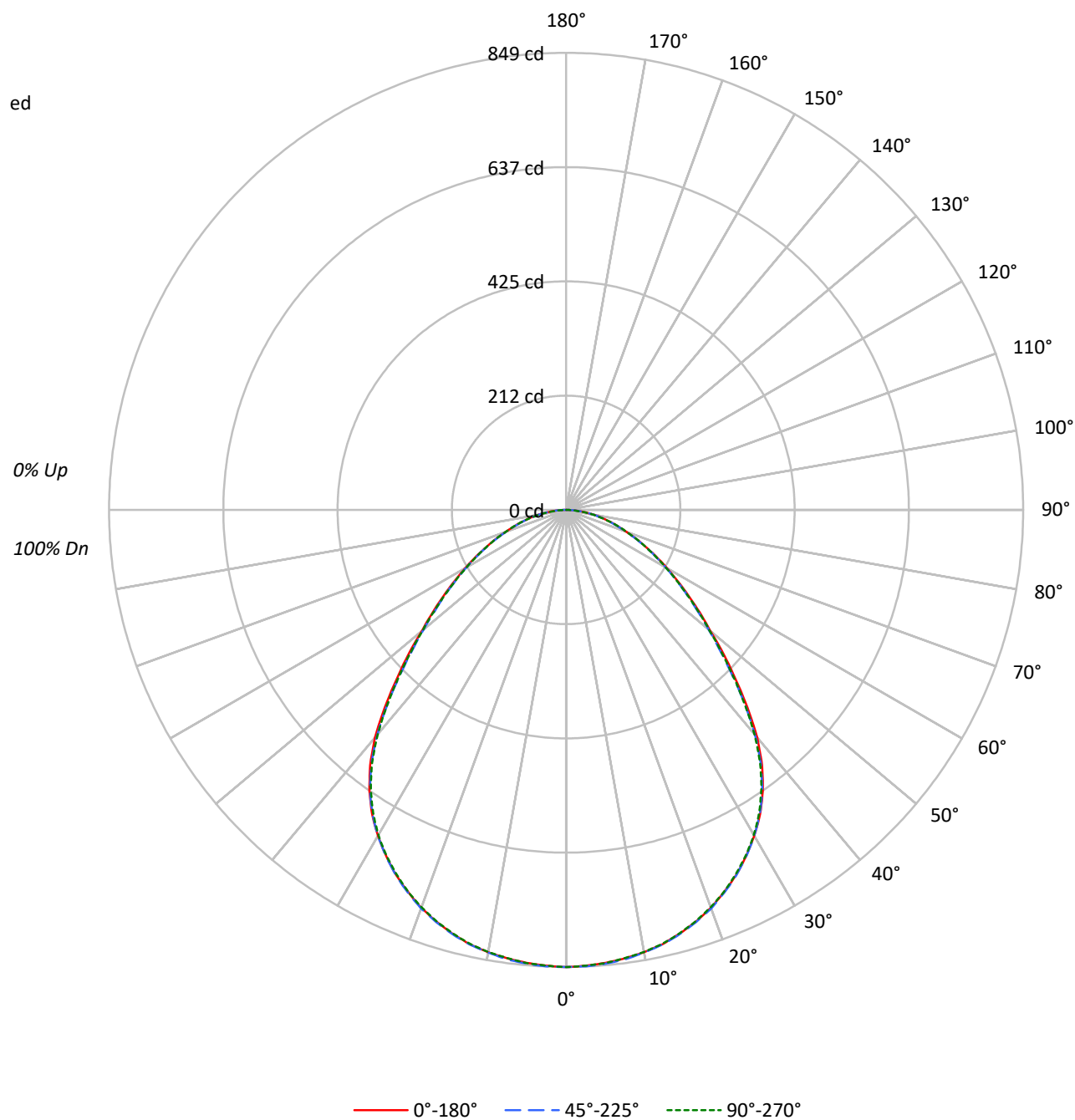
Lumens per Lamp: N/A
Luminaire Lumens: 1913.7 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	110	106	102	98	107	103	100	97		99	96	94		95	93	91		92	90	88
2	101	94	87	82	99	92	86	81		88	84	79		85	81	78		82	79	76
3	93	83	76	70	91	82	75	69		79	73	68		76	71	67		74	69	66
4	86	75	67	60	84	73	66	60		71	64	59		69	63	58		67	62	58
5	79	67	59	53	77	66	58	53		64	57	52		62	56	51		61	55	51
6	74	61	53	47	72	60	52	47		58	51	46		57	51	46		55	50	45
7	69	56	48	42	67	55	47	42		54	46	41		52	46	41		51	45	41
8	64	51	43	38	62	51	43	38		49	42	37		48	42	37		47	41	37
9	60	47	39	34	59	47	39	34		46	39	34		44	38	34		43	38	34
10	56	44	36	31	55	43	36	31		42	36	31		41	35	31		40	35	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1143	1143	1143
5°	1141	1143	1141
10°	1140	1141	1139
15°	1135	1137	1134
20°	1126	1128	1125
25°	1110	1111	1108
30°	1086	1086	1084
35°	1046	1044	1039
40°	970	959	956
45°	848	834	837
50°	732	723	727
55°	650	640	642
60°	582	574	574
65°	522	518	520
70°	469	465	469
75°	436	429	436
80°	406	401	387
85°	344	344	307

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 848 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.4	4.2
10°-20°	230.1	12.0
20°-30°	344.3	18.0
30°-40°	394.4	20.6
40°-50°	341.1	17.8
50°-60°	246.9	12.9
60°-70°	162.6	8.5
70°-80°	88.5	4.6
80°-90°	25.4	1.3
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°	654.7	34.2
0°-40°	1049.2	54.8
0°-60°	1637.2	85.6
0°-90°	1913.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1913.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	849	849	849	849	849	
5°	844	846	846	846	845	80
15°	815	816	816	817	814	230
25°	748	748	749	749	746	344
35°	637	636	635	635	632	396
45°	445	444	438	438	440	345
55°	277	276	273	271	274	250
65°	164	165	163	162	163	164
75°	84	84	83	83	84	89
85°	22	22	22	23	20	26
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	849.3	849.3	849.3	849.3	849.3
2.5°	847.5	849.3	848.7	849.3	847.5
5°	844.5	846.3	846.3	846.3	845.1
7.5°	840.2	841.4	842.0	842.6	839.6
10°	834.2	835.4	834.8	836.0	833.6
12.5°	826.4	826.4	827.0	828.2	825.8
15°	814.9	815.5	816.1	817.3	814.3
17.5°	801.7	802.3	802.9	803.5	801.1
20°	786.6	786.6	787.8	788.4	785.4
22.5°	767.9	767.9	769.1	770.9	767.3
25°	748.0	748.0	748.6	749.2	746.2
27.5°	724.5	724.5	725.1	726.9	723.3
30°	699.2	698.6	699.2	699.8	697.4
32.5°	670.9	670.3	669.7	670.3	667.2
35°	637.1	636.5	635.3	634.7	632.3
37.5°	597.9	596.7	594.3	594.3	591.9
40°	552.1	549.1	546.1	544.9	544.3
42.5°	499.1	496.7	492.4	491.8	491.8
45°	445.4	444.2	438.2	437.6	440.0
47.5°	397.2	394.2	388.8	387.6	391.2
50°	349.6	350.2	345.4	343.6	347.2
52.5°	312.2	311.0	306.8	305.6	308.6
55°	277.3	276.1	273.0	271.2	273.6
57.5°	245.3	244.7	241.7	241.1	242.3
60°	216.4	215.8	213.4	212.8	213.4
62.5°	189.3	189.3	186.9	185.6	187.5
65°	163.9	165.2	162.7	161.5	163.3
67.5°	141.0	142.2	139.8	138.6	141.0
70°	119.3	120.5	118.1	116.9	119.3
72.5°	100.7	101.3	99.5	98.9	101.9
75°	83.8	83.8	82.6	82.6	83.8
77.5°	68.1	67.5	66.9	66.9	65.7
80°	52.4	51.8	51.8	51.8	50.0
82.5°	37.4	36.2	36.8	37.4	34.4
85°	22.3	22.3	22.3	22.9	19.9
87.5°	9.0	9.0	8.4	9.0	7.8
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	9.7	11.2	10.1	11.6	11.9	9.6	11.1	10.0	11.5	11.8
	3H	11.2	12.5	11.5	12.8	13.2	11.1	12.4	11.4	12.7	13.1
	4H	11.7	13.0	12.1	13.3	13.7	11.6	12.9	12.0	13.2	13.6
	6H	12.1	13.3	12.6	13.7	14.1	12.0	13.2	12.5	13.6	14.0
	8H	12.3	13.4	12.7	13.8	14.2	12.2	13.3	12.6	13.7	14.1
	12H	12.4	13.4	12.8	13.8	14.3	12.2	13.3	12.7	13.7	14.1
4H	2H	10.2	11.5	10.6	11.8	12.2	10.1	11.4	10.5	11.7	12.1
	3H	11.9	12.9	12.3	13.3	13.7	11.8	12.8	12.2	13.2	13.6
	4H	12.5	13.5	13.0	13.9	14.3	12.5	13.4	12.9	13.8	14.3
	6H	13.1	13.9	13.6	14.4	14.8	13.0	13.8	13.5	14.3	14.7
	8H	13.3	14.1	13.8	14.5	15.0	13.2	14.0	13.7	14.4	14.9
	12H	13.4	14.1	13.9	14.6	15.1	13.3	14.0	13.8	14.5	15.0
8H	4H	12.8	13.6	13.3	14.0	14.5	12.7	13.5	13.2	13.9	14.4
	6H	13.5	14.1	14.0	14.6	15.1	13.4	14.0	13.9	14.5	15.0
	8H	13.7	14.3	14.3	14.8	15.3	13.7	14.2	14.2	14.7	15.2
	12H	13.9	14.5	14.5	14.9	15.5	13.9	14.4	14.4	14.9	15.4
12H	4H	12.8	13.5	13.3	14.0	14.5	12.7	13.4	13.2	13.9	14.4
	6H	13.5	14.1	14.1	14.6	15.1	13.5	14.0	14.0	14.5	15.0
	8H	13.8	14.3	14.4	14.8	15.4	13.8	14.3	14.3	14.8	15.3

(END OF REPORT)