

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: P1471750

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

Issue Date: 6/22/2026

Test Information

Test Method: LM-79-2019
Report Number: P1471750
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-W
Description: 2000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PL1 Lens White Recess
Frame
Light Source: -
Ballast/Driver: -

Summary

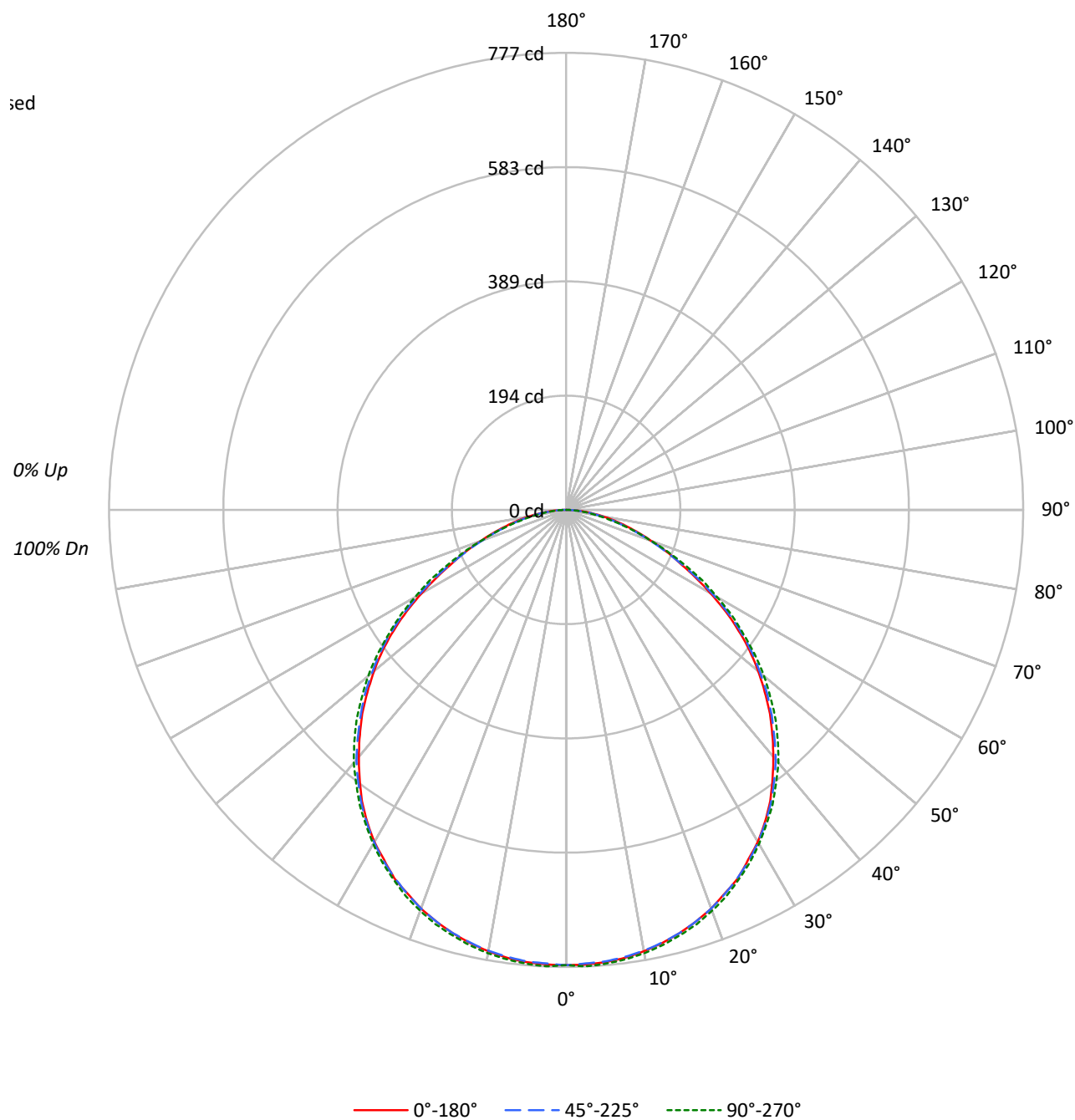
Lumens per Lamp: N/A
Luminaire Lumens: 2040.3 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	87	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	74	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	63	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	55	55	52
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	48	48	46
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	42	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	37	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	34	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	30	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1041	1041	1041
5°	1042	1040	1046
10°	1041	1040	1046
15°	1038	1037	1043
20°	1033	1033	1039
25°	1026	1024	1030
30°	1013	1014	1019
35°	993	997	1005
40°	963	974	986
45°	933	940	958
50°	891	901	919
55°	840	853	863
60°	762	778	797
65°	677	684	711
70°	605	592	607
75°	545	514	504
80°	496	460	408
85°	420	381	329

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
Vertical Angle: 45°
Luminance: 958 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.4	3.6
10°-20°	210.6	10.3
20°-30°	318.5	15.6
30°-40°	379.7	18.6
40°-50°	381.8	18.7
50°-60°	324.0	15.9
60°-70°	215.7	10.6
70°-80°	107.7	5.3
80°-90°	28.8	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°	602.5	29.5
0°-40°	982.2	48.1
0°-60°	1688.0	82.7
0°-90°	2040.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2040.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	774	774	774	774	774	
5°	772	772	770	774	774	73
15°	745	746	745	748	748	210
25°	691	691	690	693	694	318
35°	605	605	607	611	612	377
45°	490	491	494	501	504	377
55°	358	360	364	367	368	319
65°	212	214	215	218	223	213
75°	105	104	99	97	97	113
85°	27	27	25	23	21	31
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	774.0	774.0	774.0	774.0	774.0
2.5°	773.4	774.0	771.9	775.7	776.6
5°	771.7	771.9	770.3	773.7	774.5
7.5°	768.0	768.3	766.5	770.3	770.8
10°	761.9	762.6	761.1	764.5	765.4
12.5°	754.2	755.1	753.6	757.4	758.0
15°	745.1	745.9	744.7	747.9	748.5
17.5°	733.8	734.4	733.8	736.7	738.4
20°	721.2	721.2	721.2	723.8	725.3
22.5°	705.5	706.9	706.3	709.7	711.2
25°	690.9	690.9	689.9	693.2	693.7
27.5°	670.4	672.7	672.5	675.3	676.0
30°	651.8	652.4	652.7	654.7	655.9
32.5°	629.2	629.7	630.6	633.5	633.8
35°	604.8	605.4	607.1	611.4	612.0
37.5°	576.5	579.6	581.0	585.6	586.1
40°	548.0	550.0	554.4	559.2	561.4
42.5°	519.0	521.3	523.9	530.5	532.6
45°	490.1	490.9	494.1	500.7	503.6
47.5°	458.0	460.6	463.4	469.1	470.9
50°	425.9	428.7	430.5	435.6	439.0
52.5°	393.5	396.1	398.1	401.2	404.6
55°	357.9	360.4	363.7	367.1	367.9
57.5°	321.8	324.6	326.7	330.3	334.1
60°	283.0	286.2	289.1	292.5	296.3
62.5°	247.0	248.3	251.2	257.0	262.4
65°	212.5	214.2	214.8	218.0	223.4
67.5°	183.8	183.8	181.2	182.4	188.4
70°	153.7	152.6	150.6	149.4	154.3
72.5°	129.3	127.9	123.6	121.6	124.2
75°	104.9	103.5	98.9	96.6	96.9
77.5°	84.3	82.0	78.3	74.3	73.5
80°	64.0	63.0	59.4	55.6	52.7
82.5°	45.3	43.3	41.3	39.0	36.7
85°	27.2	26.7	24.7	23.2	21.3
87.5°	11.1	11.1	10.6	10.0	9.5
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	11.3	12.9	11.7	13.3	13.6	11.5	13.1	11.9	13.4	13.7
	3H	12.7	14.2	13.1	14.5	14.8	12.8	14.3	13.2	14.6	14.9
	4H	13.2	14.6	13.6	14.9	15.3	13.3	14.6	13.7	15.0	15.3
	6H	13.6	14.9	14.0	15.2	15.6	13.5	14.8	13.9	15.1	15.5
	8H	13.7	14.9	14.2	15.3	15.7	13.6	14.8	14.0	15.2	15.6
	12H	13.8	15.0	14.3	15.3	15.8	13.7	14.8	14.1	15.2	15.6
4H	2H	11.8	13.2	12.2	13.5	13.9	12.0	13.3	12.4	13.7	14.0
	3H	13.4	14.5	13.8	14.9	15.3	13.5	14.6	13.9	15.0	15.4
	4H	14.0	15.1	14.5	15.5	15.9	14.0	15.0	14.5	15.4	15.9
	6H	14.6	15.4	15.0	15.9	16.3	14.4	15.3	14.9	15.7	16.2
	8H	14.7	15.6	15.2	16.0	16.5	14.5	15.4	15.0	15.8	16.3
	12H	14.9	15.6	15.3	16.1	16.5	14.6	15.3	15.1	15.8	16.3
8H	4H	14.3	15.1	14.7	15.5	16.0	14.2	15.1	14.7	15.5	16.0
	6H	14.9	15.6	15.4	16.0	16.5	14.7	15.4	15.2	15.9	16.4
	8H	15.1	15.7	15.6	16.2	16.7	14.9	15.5	15.4	16.0	16.5
	12H	15.3	15.9	15.8	16.3	16.9	15.0	15.6	15.5	16.1	16.6
12H	4H	14.3	15.0	14.8	15.5	16.0	14.3	15.0	14.7	15.5	15.9
	6H	14.9	15.5	15.4	16.0	16.5	14.8	15.4	15.3	15.8	16.4
	8H	15.2	15.7	15.7	16.2	16.8	15.0	15.5	15.5	16.0	16.6

(END OF REPORT)