

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: P1051004

Luminaire Tested: 24PTR-20-PW1-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1051004
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737743)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-20-PW1-L830-UNV-STD-W
Description: 2000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND WAVES LENS

Light Source:
Ballast/Driver: -

Summary

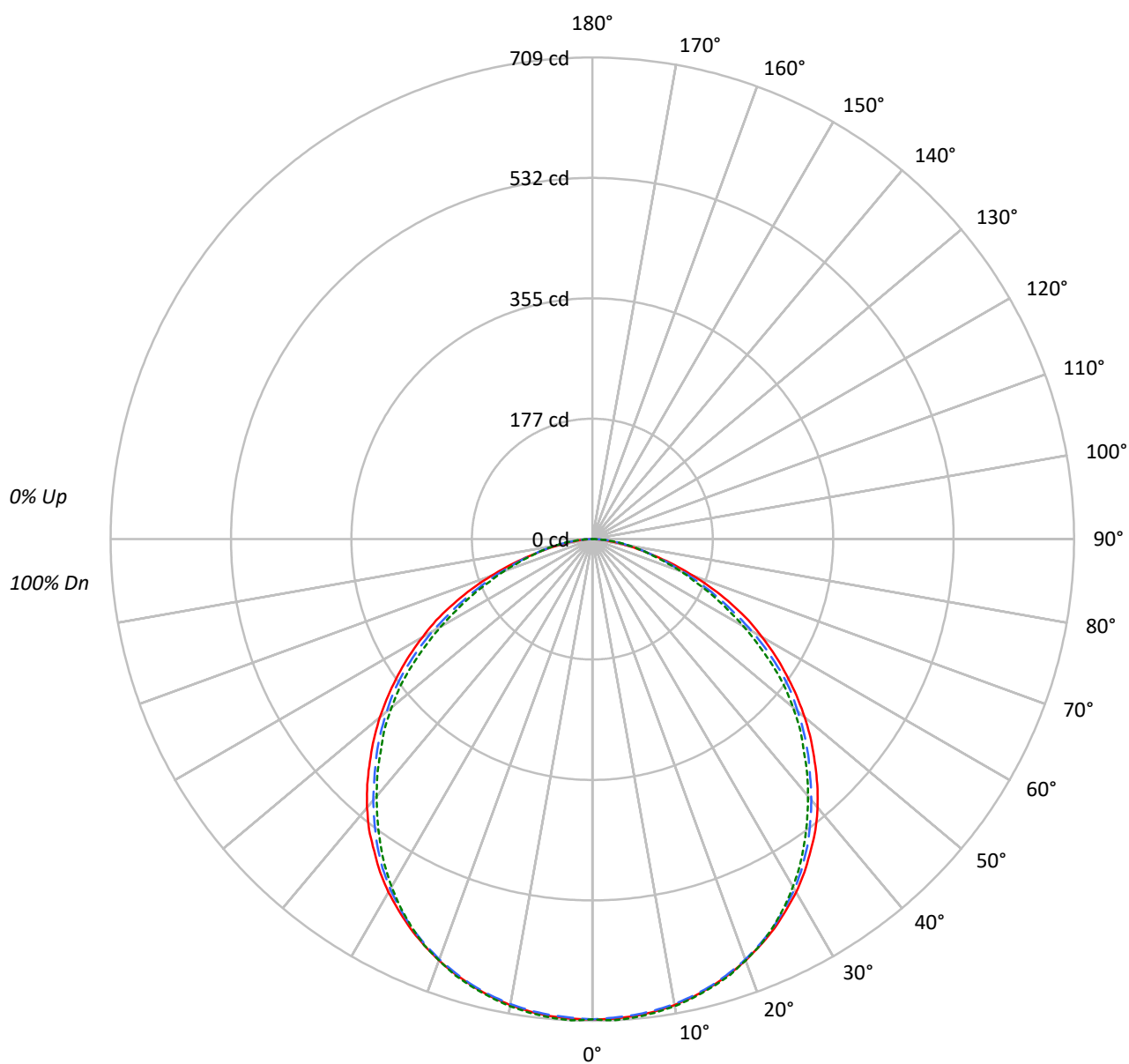
Lumens per Lamp: N/A
Luminaire Lumens: 1876.0 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 15
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor:
Total Harmonic Distortion (THDi):
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
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					10
RW	70	50	30	10	70	50	30	10	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	102	102	100
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	87	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	74	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	63	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	54	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	42	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	37	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	33	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	30	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	27	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	951	951	951
5°	952	950	955
10°	951	949	954
15°	949	947	951
20°	945	943	945
25°	940	936	935
30°	932	924	918
35°	920	906	894
40°	906	881	867
45°	881	855	837
50°	854	826	807
55°	818	791	759
60°	776	730	692
65°	718	652	620
70°	622	568	546
75°	497	486	473
80°	377	422	422
85°	279	360	360

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 881 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.0	3.6
10°-20°	192.3	10.3
20°-30°	290.6	15.5
30°-40°	345.1	18.4
40°-50°	347.6	18.5
50°-60°	300.5	16.0
60°-70°	205.4	10.9
70°-80°	101.3	5.4
80°-90°	26.2	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°	549.9	29.3
0°-40°	895.0	47.7
0°-60°	1543.1	82.3
0°-90°	1876.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1876.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	707	707	707	707	707	
5°	705	705	703	706	707	67
15°	681	682	680	682	682	192
25°	633	632	630	631	630	292
35°	560	558	552	547	544	351
45°	463	458	449	444	440	357
55°	349	348	337	327	324	312
65°	226	217	205	196	195	223
75°	96	95	94	94	91	104
85°	18	21	23	24	23	22
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	706.9	706.9	706.9	706.9	706.9
2.5°	706.7	706.9	705.1	708.2	709.0
5°	704.8	705.1	703.3	706.1	706.9
7.5°	701.5	702.0	699.9	702.7	703.3
10°	696.4	696.7	694.9	697.8	698.3
12.5°	689.7	689.9	688.3	690.9	690.9
15°	681.0	681.8	680.0	682.3	682.5
17.5°	671.3	671.6	669.8	672.4	672.9
20°	659.8	659.8	658.3	660.4	659.8
22.5°	646.9	646.9	645.1	646.2	646.7
25°	632.9	632.3	630.2	630.8	629.7
27.5°	616.6	616.6	612.9	612.9	611.1
30°	600.1	598.8	594.9	592.5	590.7
32.5°	581.2	579.4	574.4	570.2	568.9
35°	560.0	558.1	551.6	546.6	544.5
37.5°	539.6	535.4	526.7	521.8	519.4
40°	515.7	510.4	501.6	494.7	493.7
42.5°	490.1	485.9	474.4	469.3	468.1
45°	462.9	457.8	449.2	443.9	440.0
47.5°	436.1	432.4	422.5	416.2	414.9
50°	408.0	404.9	394.7	388.0	385.6
52.5°	379.0	376.9	368.3	359.6	356.7
55°	348.9	347.9	337.1	327.1	323.7
57.5°	319.3	318.0	304.6	293.1	289.9
60°	288.4	284.5	271.4	260.6	257.2
62.5°	259.1	250.7	236.5	228.1	224.2
65°	225.5	217.4	204.8	195.9	194.6
67.5°	192.5	182.8	173.1	167.6	163.4
70°	158.2	151.6	144.3	139.6	138.9
72.5°	126.2	121.5	117.8	115.0	112.6
75°	95.6	94.8	93.5	93.5	90.9
77.5°	70.2	72.1	73.1	72.8	73.4
80°	48.7	52.3	54.4	54.7	54.4
82.5°	30.9	35.1	38.5	39.0	39.6
85°	18.1	21.2	23.3	23.8	23.3
87.5°	8.1	10.2	10.8	11.2	10.8
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)