

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: P1050465

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

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050465
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2310-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-20-L830-UNV-STD-W
Description: 2000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

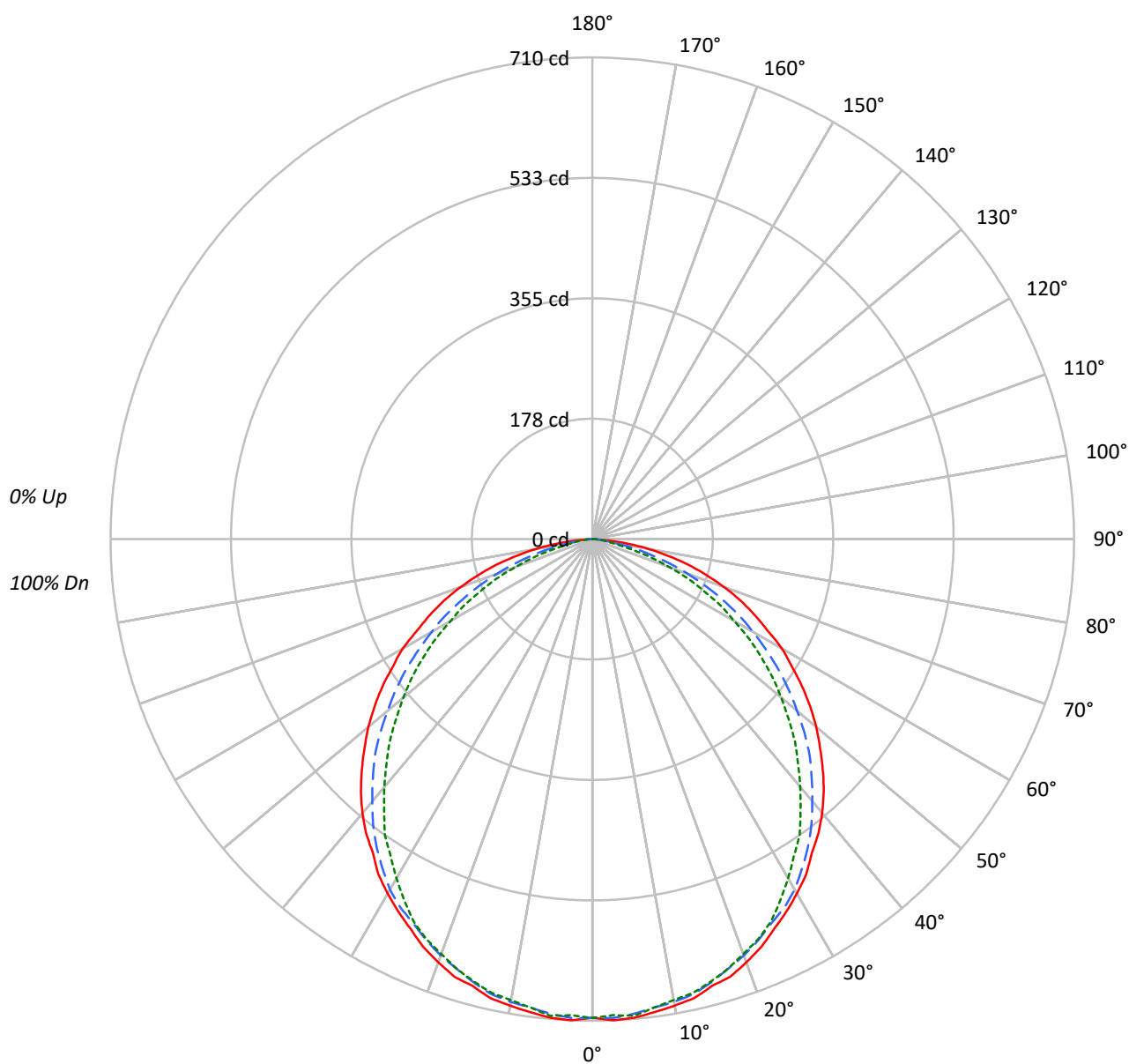
Lumens per Lamp: N/A
Luminaire Lumens: 1879.8 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	950	950	950
5°	957	949	953
10°	954	946	942
15°	950	942	940
20°	950	935	932
25°	941	927	924
30°	937	927	897
35°	927	910	875
40°	926	886	837
45°	914	863	804
50°	902	825	760
55°	884	786	714
60°	869	735	648
65°	839	674	579
70°	812	587	473
75°	763	463	325
80°	661	280	195
85°	442	201	188

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 914 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.9	3.6
10°-20°	191.4	10.2
20°-30°	289.2	15.4
30°-40°	343.8	18.3
40°-50°	348.7	18.5
50°-60°	302.8	16.1
60°-70°	214.9	11.4
70°-80°	102.7	5.5
80°-90°	19.5	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°	547.5	29.1
0°-40°	891.3	47.4
0°-60°	1542.7	82.1
0°-90°	1879.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1879.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	706	706	706	706	706	
5°	708	706	702	704	705	67
15°	682	684	676	676	675	193
25°	634	633	625	627	622	293
35°	564	563	554	535	533	354
45°	480	476	454	430	422	371
55°	377	366	335	315	304	337
65°	264	244	212	189	182	261
75°	147	120	89	71	63	154
85°	29	15	13	13	12	36
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	705.7	705.7	705.7	705.7	705.7
2.5°	709.9	707.4	706.6	709.5	702.4
5°	708.3	705.7	702.4	704.1	705.3
7.5°	703.2	701.1	696.5	700.3	696.5
10°	698.2	696.1	692.7	694.0	689.8
12.5°	693.1	688.1	687.2	688.1	685.1
15°	681.8	683.5	676.3	675.5	675.1
17.5°	676.3	672.1	664.5	665.0	664.1
20°	663.7	658.7	653.2	652.4	650.7
22.5°	650.7	644.8	639.7	642.3	638.5
25°	633.9	633.0	624.6	627.1	622.5
27.5°	619.2	616.2	612.4	607.0	600.2
30°	603.2	600.2	596.5	582.2	577.1
32.5°	586.4	583.0	575.4	558.6	553.2
35°	564.1	563.2	554.0	535.1	532.6
37.5°	547.3	538.0	530.5	511.1	504.0
40°	527.1	522.1	504.4	485.9	476.7
42.5°	504.8	498.9	478.8	459.0	448.9
45°	480.4	476.2	453.5	429.6	422.4
47.5°	455.2	451.4	424.5	401.4	392.2
50°	430.8	426.2	393.9	371.6	363.2
52.5°	404.4	396.8	364.8	343.0	335.0
55°	377.0	365.7	335.0	315.3	304.3
57.5°	348.0	337.5	303.5	282.9	274.1
60°	322.8	308.1	273.2	252.2	240.9
62.5°	290.5	277.8	244.6	219.8	214.4
65°	263.5	243.8	211.8	189.2	182.0
67.5°	236.2	213.1	180.7	157.6	153.8
70°	206.4	182.4	149.2	126.5	120.2
72.5°	176.1	152.6	120.2	96.3	92.5
75°	146.7	119.8	89.1	70.6	62.6
77.5°	114.8	90.4	62.6	43.3	38.3
80°	85.3	60.9	36.1	25.6	25.2
82.5°	55.9	35.3	19.3	19.8	18.9
85°	28.6	15.1	13.0	12.6	12.2
87.5°	5.5	5.9	6.3	6.3	6.3
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)