

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: P1050696

Luminaire Tested: 24PTR-20-PL1-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050696
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737719)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-20-PL1-L830-UNV-STD-W
Description: 2000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

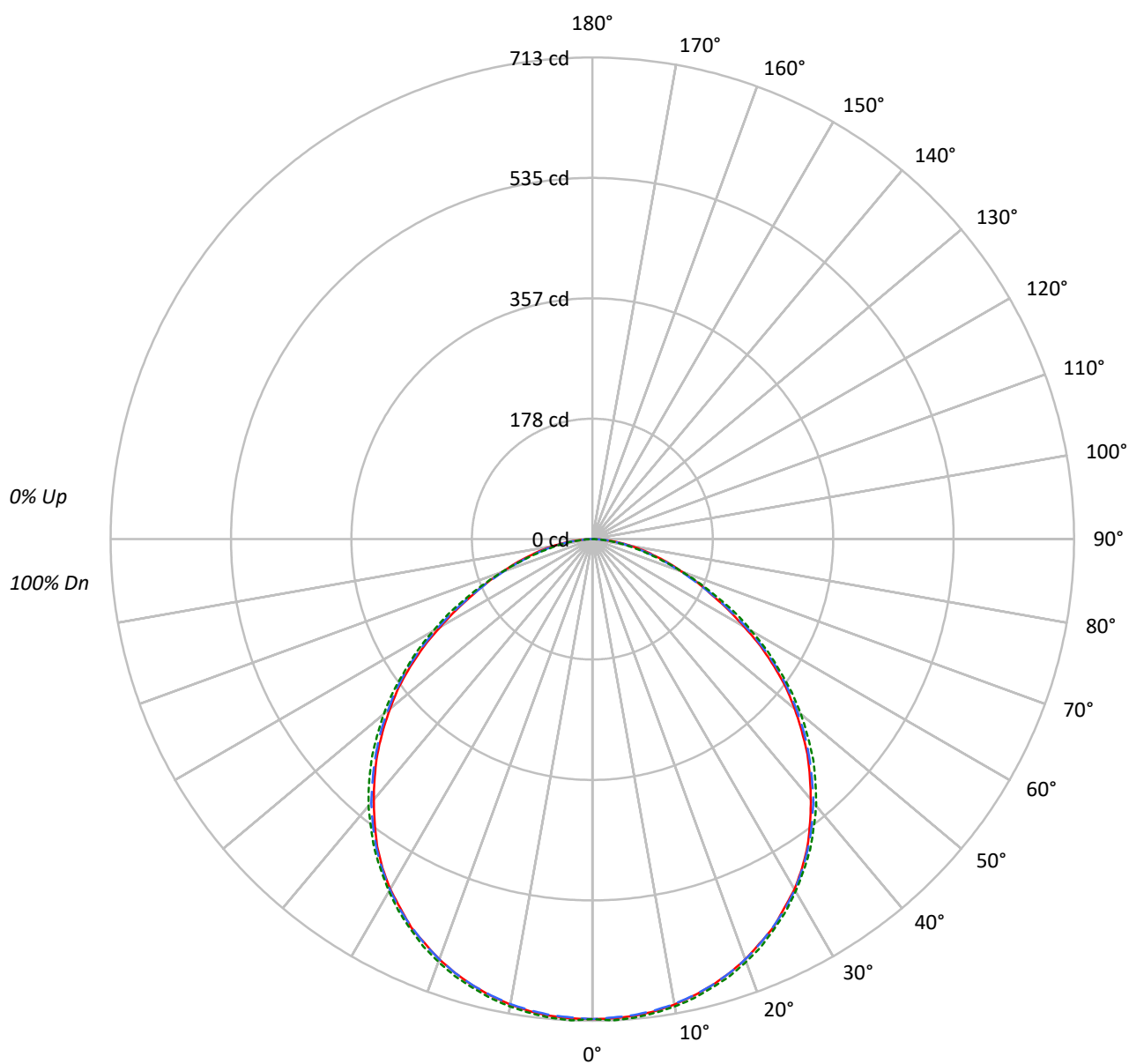
Lumens per Lamp: N/A
Luminaire Lumens: 1873.1 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	956	956	956
5°	957	955	960
10°	956	955	960
15°	953	952	957
20°	948	948	953
25°	942	940	945
30°	930	931	935
35°	912	915	923
40°	884	894	905
45°	856	863	880
50°	818	827	844
55°	771	783	792
60°	699	714	732
65°	621	628	653
70°	555	544	557
75°	501	472	463
80°	455	422	375
85°	386	350	301

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
Vertical Angle: 45°
Luminance: 880 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.4	3.6
10°-20°	193.3	10.3
20°-30°	292.4	15.6
30°-40°	348.6	18.6
40°-50°	350.5	18.7
50°-60°	297.5	15.9
60°-70°	198.1	10.6
70°-80°	98.9	5.3
80°-90°	26.5	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°	553.1	29.5
0°-40°	901.7	48.1
0°-60°	1549.7	82.7
0°-90°	1873.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1873.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	711	711	711	711	711	
5°	708	709	707	710	711	67
15°	684	685	684	687	687	193
25°	634	634	633	636	637	292
35°	555	556	557	561	562	346
45°	450	451	454	460	462	346
55°	329	331	334	337	338	293
65°	195	197	197	200	205	196
75°	96	95	91	89	89	103
85°	25	24	23	21	20	29
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	710.6	710.6	710.6	710.6	710.6
2.5°	710.0	710.6	708.7	712.1	713.0
5°	708.5	708.7	707.1	710.3	711.1
7.5°	705.0	705.3	703.7	707.1	707.6
10°	699.5	700.1	698.7	701.9	702.6
12.5°	692.4	693.2	691.8	695.3	695.9
15°	684.0	684.8	683.7	686.6	687.1
17.5°	673.7	674.2	673.7	676.3	677.9
20°	662.1	662.1	662.1	664.5	665.8
22.5°	647.6	649.0	648.4	651.6	652.9
25°	634.2	634.2	633.4	636.4	636.8
27.5°	615.5	617.6	617.4	620.0	620.6
30°	598.4	598.9	599.2	601.1	602.1
32.5°	577.6	578.1	579.0	581.5	581.8
35°	555.2	555.8	557.3	561.3	561.8
37.5°	529.2	532.1	533.4	537.6	538.1
40°	503.1	504.9	508.9	513.3	515.4
42.5°	476.5	478.6	481.0	487.0	488.9
45°	449.9	450.7	453.6	459.7	462.3
47.5°	420.4	422.8	425.4	430.7	432.3
50°	391.0	393.6	395.2	399.9	403.0
52.5°	361.2	363.6	365.4	368.3	371.5
55°	328.6	330.9	333.9	337.0	337.8
57.5°	295.4	298.0	299.9	303.3	306.7
60°	259.8	262.8	265.4	268.5	272.0
62.5°	226.7	228.0	230.6	235.9	240.9
65°	195.1	196.7	197.2	200.1	205.1
67.5°	168.7	168.7	166.4	167.4	173.0
70°	141.1	140.1	138.2	137.2	141.7
72.5°	118.7	117.4	113.5	111.6	114.0
75°	96.3	95.0	90.8	88.7	89.0
77.5°	77.4	75.3	71.8	68.2	67.4
80°	58.7	57.9	54.5	51.1	48.4
82.5°	41.6	39.8	37.9	35.8	33.7
85°	25.0	24.5	22.7	21.3	19.5
87.5°	10.2	10.2	9.8	9.2	8.7
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)