

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: P1050762

Luminaire Tested: 24PTR-20-PL1-L940-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050762
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-L940-UNV-STD-W
Description: 2000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

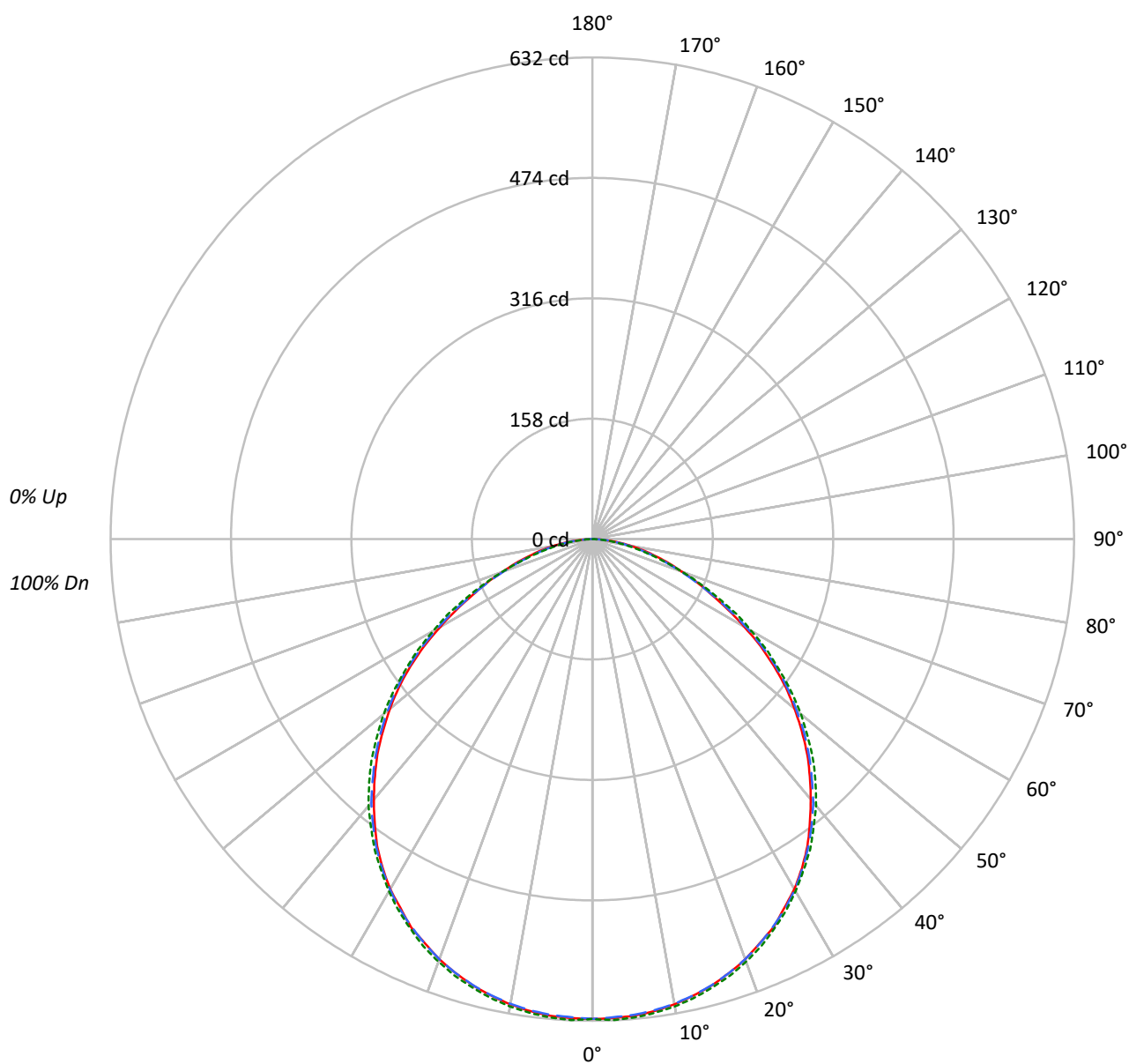
Lumens per Lamp: N/A
Luminaire Lumens: 1659.7 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	847	847	847
5°	848	846	851
10°	847	846	851
15°	844	844	848
20°	840	840	845
25°	834	833	838
30°	824	825	829
35°	808	811	818
40°	783	792	802
45°	758	765	780
50°	725	733	747
55°	683	694	702
60°	619	633	649
65°	550	556	578
70°	492	482	494
75°	444	418	410
80°	403	374	332
85°	341	310	267

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 780 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.7	3.6
10°-20°	171.3	10.3
20°-30°	259.1	15.6
30°-40°	308.8	18.6
40°-50°	310.6	18.7
50°-60°	263.6	15.9
60°-70°	175.5	10.6
70°-80°	87.6	5.3
80°-90°	23.4	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°	490.1	29.5
0°-40°	799.0	48.1
0°-60°	1373.1	82.7
0°-90°	1659.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1659.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	630	630	630	630	630	
5°	628	628	627	629	630	60
15°	606	607	606	608	609	171
25°	562	562	561	564	564	258
35°	492	492	494	497	498	307
45°	399	399	402	407	410	307
55°	291	293	296	299	299	259
65°	173	174	175	177	182	173
75°	85	84	80	79	79	92
85°	22	22	20	19	17	26
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	629.6	629.6	629.6	629.6	629.6
2.5°	629.1	629.6	627.9	631.0	631.7
5°	627.8	627.9	626.6	629.4	630.1
7.5°	624.7	625.0	623.5	626.6	627.0
10°	619.8	620.3	619.1	621.9	622.6
12.5°	613.5	614.2	613.0	616.1	616.6
15°	606.1	606.7	605.8	608.4	608.9
17.5°	596.9	597.4	596.9	599.3	600.6
20°	586.7	586.7	586.7	588.8	590.0
22.5°	573.9	575.0	574.5	577.3	578.5
25°	562.0	562.0	561.2	563.9	564.3
27.5°	545.4	547.2	547.1	549.4	549.9
30°	530.2	530.7	531.0	532.6	533.5
32.5°	511.8	512.2	513.0	515.3	515.5
35°	492.0	492.5	493.8	497.3	497.8
37.5°	468.9	471.5	472.6	476.4	476.8
40°	445.8	447.4	450.9	454.8	456.7
42.5°	422.2	424.1	426.2	431.5	433.2
45°	398.6	399.3	402.0	407.3	409.7
47.5°	372.5	374.7	376.9	381.6	383.0
50°	346.4	348.7	350.2	354.3	357.1
52.5°	320.1	322.2	323.8	326.3	329.1
55°	291.2	293.2	295.8	298.6	299.3
57.5°	261.8	264.0	265.7	268.7	271.8
60°	230.2	232.8	235.1	237.9	241.0
62.5°	200.9	202.0	204.4	209.0	213.4
65°	172.8	174.3	174.7	177.3	181.7
67.5°	149.5	149.5	147.4	148.3	153.3
70°	125.0	124.1	122.5	121.6	125.5
72.5°	105.2	104.0	100.5	98.9	101.0
75°	85.4	84.2	80.4	78.6	78.8
77.5°	68.6	66.7	63.7	60.4	59.8
80°	52.0	51.3	48.3	45.3	42.9
82.5°	36.9	35.3	33.6	31.7	29.8
85°	22.1	21.7	20.1	18.9	17.3
87.5°	9.1	9.1	8.6	8.1	7.7
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)