

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: P1051070

Luminaire Tested: 24PTR-20-PW1-L940-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1051070
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-L940-UNV-STD-W
Description: 2000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND WAVES LENS

Light Source:
Ballast/Driver: -

Summary

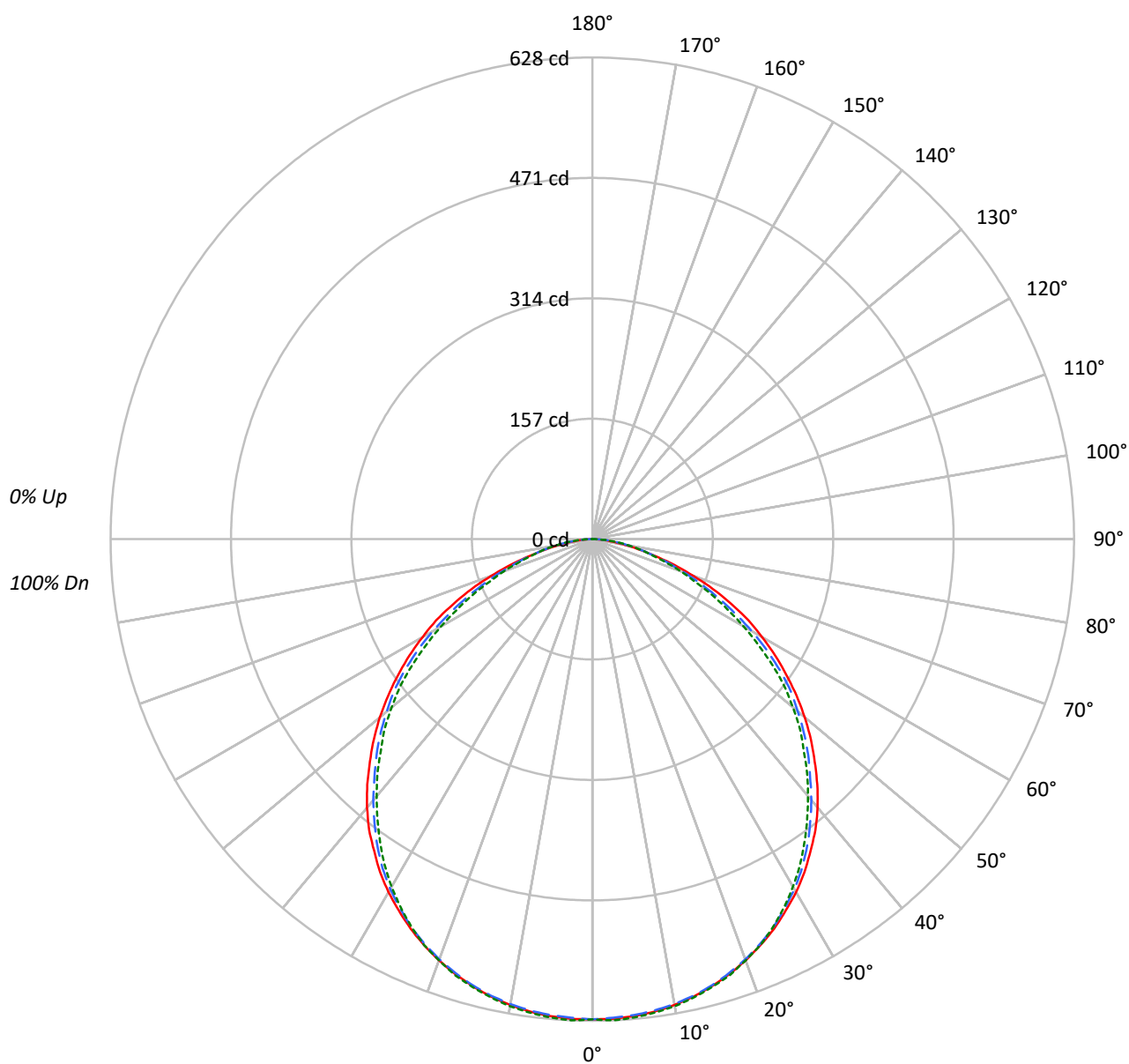
Lumens per Lamp: N/A
Luminaire Lumens: 1661.6 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	100		
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71		
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	57	68	61	56	66	60	55	64	59	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	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31		
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	842	842	842
5°	843	841	846
10°	843	841	845
15°	840	839	842
20°	837	835	837
25°	832	829	828
30°	826	819	813
35°	815	802	792
40°	802	780	768
45°	780	757	742
50°	756	732	715
55°	725	700	673
60°	687	647	613
65°	636	578	549
70°	551	503	484
75°	440	430	418
80°	335	373	373
85°	247	320	320

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 780 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.4	3.6
10°-20°	170.3	10.2
20°-30°	257.4	15.5
30°-40°	305.6	18.4
40°-50°	307.9	18.5
50°-60°	266.2	16.0
60°-70°	181.9	10.9
70°-80°	89.7	5.4
80°-90°	23.2	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°	487.1	29.3
0°-40°	792.7	47.7
0°-60°	1366.8	82.3
0°-90°	1661.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1661.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	626	626	626	626	626	
5°	624	624	623	625	626	59
15°	603	604	602	604	604	170
25°	560	560	558	559	558	258
35°	496	494	488	484	482	310
45°	410	406	398	393	390	316
55°	309	308	299	290	287	276
65°	200	192	181	174	172	197
75°	85	84	83	83	80	92
85°	16	19	21	21	21	20
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	626.1	626.1	626.1	626.1	626.1
2.5°	626.0	626.1	624.5	627.3	628.0
5°	624.3	624.5	622.9	625.4	626.1
7.5°	621.3	621.7	619.9	622.4	622.9
10°	616.8	617.1	615.5	618.0	618.5
12.5°	610.9	611.0	609.7	612.0	612.0
15°	603.2	603.9	602.3	604.4	604.5
17.5°	594.6	594.8	593.2	595.5	596.0
20°	584.4	584.4	583.0	584.9	584.4
22.5°	573.0	573.0	571.4	572.3	572.8
25°	560.5	560.0	558.2	558.7	557.8
27.5°	546.1	546.1	542.8	542.8	541.2
30°	531.5	530.4	526.9	524.8	523.2
32.5°	514.8	513.2	508.8	505.1	503.9
35°	496.0	494.4	488.5	484.2	482.3
37.5°	477.9	474.2	466.5	462.2	460.0
40°	456.8	452.1	444.3	438.2	437.3
42.5°	434.1	430.4	420.2	415.7	414.6
45°	410.0	405.5	397.8	393.2	389.7
47.5°	386.3	383.0	374.2	368.7	367.5
50°	361.4	358.6	349.6	343.6	341.5
52.5°	335.7	333.8	326.2	318.5	316.0
55°	309.1	308.1	298.6	289.8	286.7
57.5°	282.8	281.7	269.8	259.6	256.8
60°	255.4	252.0	240.3	230.8	227.8
62.5°	229.5	222.1	209.5	202.1	198.6
65°	199.7	192.5	181.4	173.5	172.4
67.5°	170.5	161.9	153.3	148.5	144.7
70°	140.1	134.3	127.8	123.7	123.0
72.5°	111.8	107.7	104.4	101.8	99.7
75°	84.6	84.0	82.8	82.8	80.5
77.5°	62.2	63.8	64.7	64.5	65.0
80°	43.2	46.4	48.2	48.5	48.2
82.5°	27.4	31.1	34.1	34.6	35.1
85°	16.0	18.8	20.7	21.1	20.7
87.5°	7.2	9.0	9.5	9.9	9.5
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)