

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: P1050729

Luminaire Tested: 24PTR-20-PL1-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050729
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-L850-UNV-STD-W
Description: 2000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

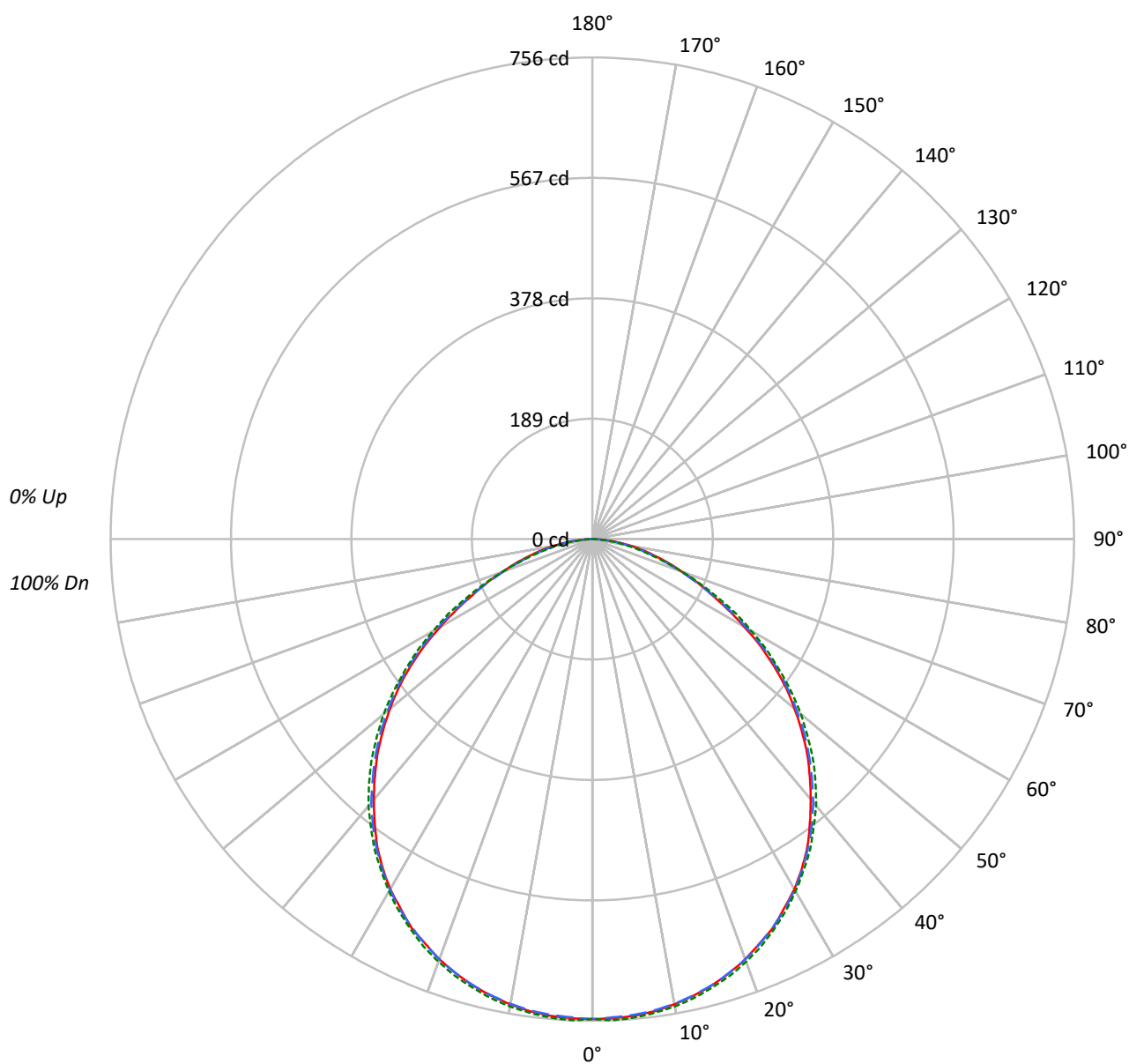
Lumens per Lamp: N/A
Luminaire Lumens: 1985.6 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1014	1014	1014
5°	1014	1012	1018
10°	1013	1012	1018
15°	1010	1010	1015
20°	1005	1005	1011
25°	998	997	1002
30°	985	987	992
35°	967	970	978
40°	937	948	960
45°	907	915	933
50°	868	877	894
55°	817	830	840
60°	741	757	776
65°	658	665	692
70°	589	576	591
75°	531	500	490
80°	483	448	397
85°	409	371	320

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
Vertical Angle: 45°
Luminance: 933 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.5	3.6
10°-20°	204.9	10.3
20°-30°	310.0	15.6
30°-40°	369.5	18.6
40°-50°	371.5	18.7
50°-60°	315.3	15.9
60°-70°	210.0	10.6
70°-80°	104.8	5.3
80°-90°	28.0	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°	586.4	29.5
0°-40°	955.9	48.1
0°-60°	1642.8	82.7
0°-90°	1985.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1985.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	753	753	753	753	753	
5°	751	751	750	753	754	71
15°	725	726	725	728	728	205
25°	672	672	671	675	675	309
35°	589	589	591	595	596	367
45°	477	478	481	487	490	367
55°	348	351	354	357	358	310
65°	207	208	209	212	217	207
75°	102	101	96	94	94	110
85°	26	26	24	23	21	31
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	753.3	753.3	753.3	753.3	753.3
2.5°	752.7	753.3	751.2	754.9	755.8
5°	751.0	751.2	749.6	753.0	753.8
7.5°	747.4	747.7	746.0	749.6	750.1
10°	741.5	742.1	740.7	744.0	744.9
12.5°	734.0	734.8	733.4	737.0	737.7
15°	725.1	725.9	724.8	727.8	728.4
17.5°	714.1	714.7	714.1	717.0	718.6
20°	701.9	701.9	701.9	704.4	705.8
22.5°	686.5	688.0	687.4	690.7	692.1
25°	672.3	672.3	671.4	674.6	675.1
27.5°	652.5	654.7	654.5	657.2	657.8
30°	634.3	634.9	635.2	637.2	638.3
32.5°	612.3	612.8	613.7	616.5	616.8
35°	588.6	589.2	590.8	595.0	595.6
37.5°	561.0	564.0	565.5	569.9	570.4
40°	533.3	535.2	539.5	544.2	546.4
42.5°	505.1	507.4	509.9	516.3	518.3
45°	476.9	477.7	480.9	487.3	490.1
47.5°	445.7	448.2	451.0	456.5	458.3
50°	414.5	417.2	418.9	423.9	427.2
52.5°	382.9	385.5	387.4	390.4	393.8
55°	348.3	350.8	353.9	357.3	358.1
57.5°	313.2	315.9	317.9	321.5	325.1
60°	275.4	278.6	281.3	284.7	288.3
62.5°	240.3	241.7	244.5	250.1	255.3
65°	206.8	208.5	209.0	212.1	217.4
67.5°	178.9	178.9	176.4	177.5	183.3
70°	149.6	148.5	146.5	145.4	150.2
72.5°	125.8	124.4	120.3	118.3	120.9
75°	102.1	100.7	96.2	94.0	94.3
77.5°	82.0	79.8	76.2	72.3	71.5
80°	62.3	61.4	57.8	54.2	51.3
82.5°	44.1	42.2	40.2	37.9	35.7
85°	26.5	26.0	24.0	22.6	20.7
87.5°	10.9	10.9	10.3	9.7	9.2
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)