

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: P1050507

Luminaire Tested: 24PTR-100-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050507
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-100-L850-UNV-STD-W
Description: 10000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

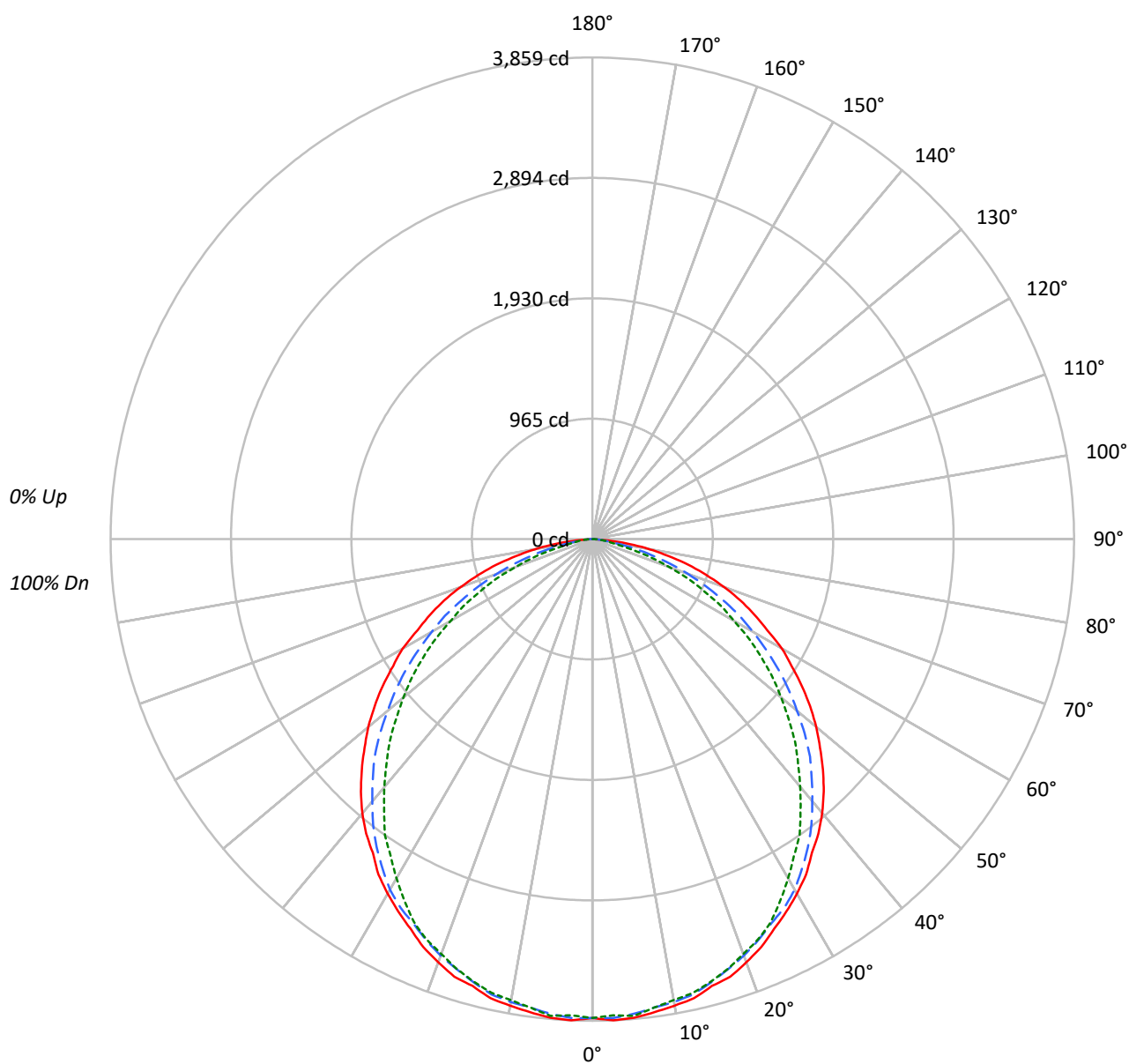
Lumens per Lamp: N/A
Luminaire Lumens: 10218.5 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5162	5162	5162
5°	5200	5157	5178
10°	5185	5144	5123
15°	5162	5121	5111
20°	5166	5084	5064
25°	5115	5041	5024
30°	5094	5037	4874
35°	5037	4946	4755
40°	5032	4816	4551
45°	4969	4691	4369
50°	4902	4481	4132
55°	4808	4272	3880
60°	4722	3997	3523
65°	4561	3666	3150
70°	4413	3191	2571
75°	4145	2518	1770
80°	3594	1523	1062
85°	2399	1093	1024

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4969 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.6	3.6
10°-20°	1040.6	10.2
20°-30°	1571.8	15.4
30°-40°	1868.8	18.3
40°-50°	1895.3	18.5
50°-60°	1645.8	16.1
60°-70°	1168.4	11.4
70°-80°	558.3	5.5
80°-90°	105.8	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°	2976.0	29.1
0°-40°	4844.8	47.4
0°-60°	8386.0	82.1
0°-90°	10218.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10218.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3836	3836	3836	3836	3836	
5°	3850	3836	3818	3827	3834	365
15°	3706	3715	3676	3672	3670	1050
25°	3446	3441	3395	3409	3384	1591
35°	3066	3062	3011	2909	2895	1927
45°	2612	2589	2465	2335	2296	2015
55°	2050	1988	1821	1714	1654	1831
65°	1433	1325	1152	1028	989	1419
75°	797	651	484	384	340	836
85°	155	82	71	68	66	196
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3836.3	3836.3	3836.3	3836.3	3836.3
2.5°	3859.1	3845.4	3840.8	3856.8	3818.0
5°	3850.0	3836.3	3818.0	3827.1	3834.0
7.5°	3822.5	3811.1	3786.0	3806.6	3786.0
10°	3795.1	3783.7	3765.4	3772.3	3749.4
12.5°	3767.7	3740.3	3735.7	3740.3	3724.3
15°	3706.0	3715.2	3676.3	3671.7	3669.5
17.5°	3676.3	3653.5	3612.3	3614.6	3610.1
20°	3607.8	3580.4	3550.7	3546.1	3536.9
22.5°	3536.9	3505.0	3477.5	3491.2	3470.7
25°	3445.5	3441.0	3395.3	3409.0	3383.9
27.5°	3365.6	3349.6	3329.0	3299.3	3262.8
30°	3278.8	3262.8	3242.2	3164.5	3137.1
32.5°	3187.4	3169.1	3128.0	3036.6	3006.9
35°	3066.3	3061.7	3011.4	2908.6	2894.9
37.5°	2974.9	2924.6	2883.5	2778.4	2739.5
40°	2865.2	2837.8	2741.8	2641.3	2591.0
42.5°	2744.1	2712.1	2602.4	2495.1	2440.2
45°	2611.6	2588.7	2465.4	2335.1	2296.3
47.5°	2474.5	2453.9	2307.7	2182.0	2131.8
50°	2342.0	2316.8	2140.9	2019.8	1974.1
52.5°	2198.0	2156.9	1983.2	1864.4	1821.0
55°	2049.5	1987.8	1821.0	1713.6	1654.2
57.5°	1891.9	1834.7	1649.7	1537.7	1489.7
60°	1754.8	1674.8	1485.2	1370.9	1309.2
62.5°	1578.8	1510.3	1329.8	1195.0	1165.3
65°	1432.6	1325.2	1151.6	1028.2	989.3
67.5°	1284.1	1158.4	982.5	856.8	836.3
70°	1121.9	991.6	811.1	687.7	653.5
72.5°	957.4	829.4	653.5	523.2	502.7
75°	797.4	651.2	484.4	383.9	340.4
77.5°	623.8	491.2	340.4	235.3	207.9
80°	463.8	331.3	196.5	139.4	137.1
82.5°	303.9	191.9	105.1	107.4	102.8
85°	155.4	82.3	70.8	68.5	66.3
87.5°	29.7	32.0	34.3	34.3	34.3
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)