

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: P1050474

Luminaire Tested: 24PTR-100-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050474
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-L830-UNV-STD-W
Description: 10000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

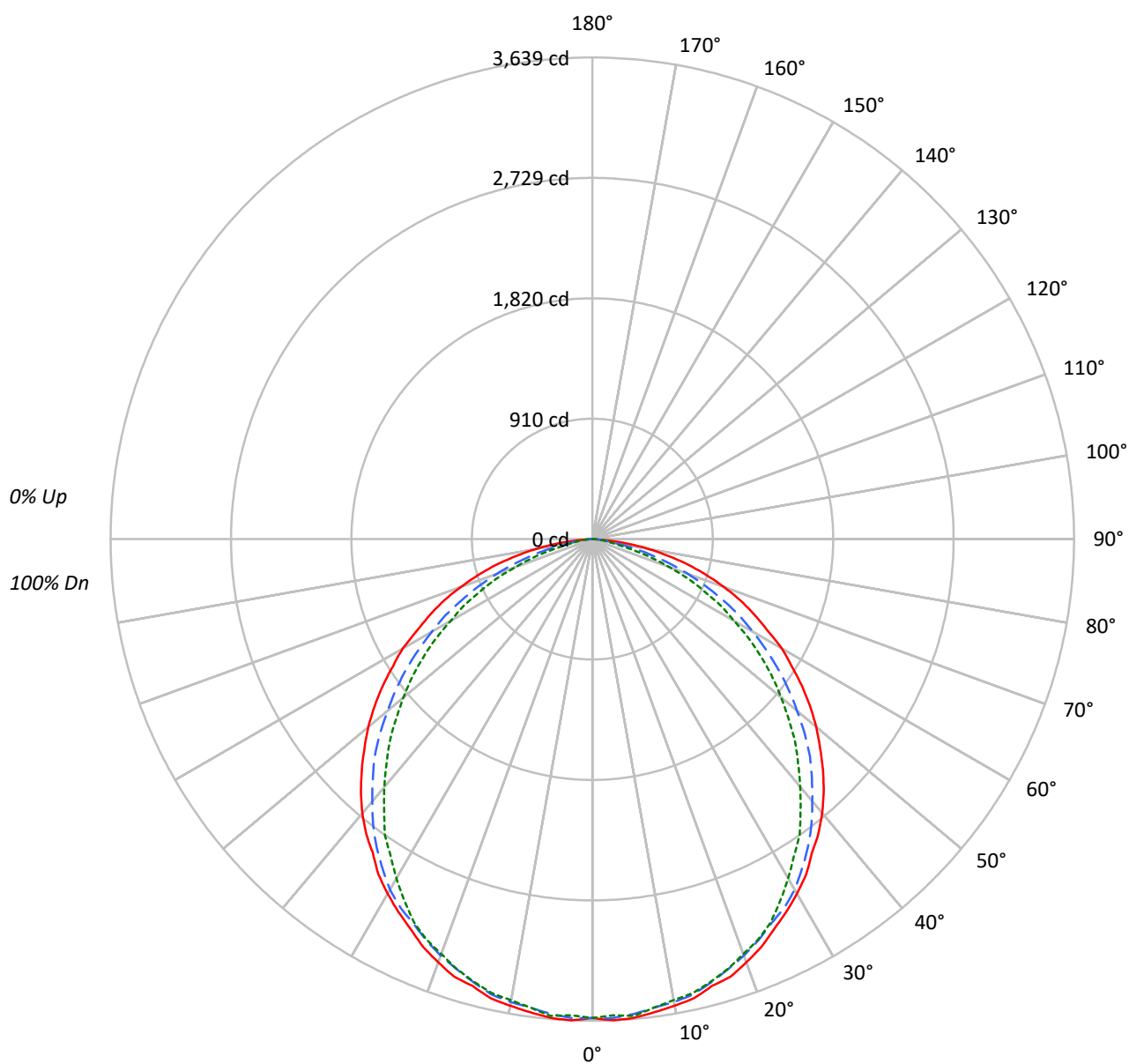
Lumens per Lamp: N/A
Luminaire Lumens: 9636.7 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	4868	4868	4868
5°	4904	4863	4883
10°	4890	4852	4831
15°	4868	4829	4820
20°	4872	4795	4776
25°	4824	4754	4738
30°	4804	4750	4596
35°	4750	4665	4484
40°	4746	4542	4292
45°	4686	4424	4121
50°	4623	4226	3897
55°	4534	4028	3659
60°	4453	3769	3323
65°	4301	3457	2970
70°	4162	3009	2424
75°	3909	2375	1669
80°	3389	1436	1002
85°	2262	1031	965

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4686 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.9	3.6
10°-20°	981.3	10.2
20°-30°	1482.3	15.4
30°-40°	1762.4	18.3
40°-50°	1787.4	18.5
50°-60°	1552.1	16.1
60°-70°	1101.8	11.4
70°-80°	526.5	5.5
80°-90°	99.8	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°	2806.6	29.1
0°-40°	4569.0	47.4
0°-60°	7908.6	82.1
0°-90°	9636.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9636.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3618	3618	3618	3618	3618	
5°	3631	3618	3601	3609	3616	345
15°	3495	3504	3467	3463	3461	990
25°	3249	3245	3202	3215	3191	1501
35°	2892	2887	2840	2743	2730	1817
45°	2463	2441	2325	2202	2166	1900
55°	1933	1875	1717	1616	1560	1727
65°	1351	1250	1086	970	933	1338
75°	752	614	457	362	321	789
85°	146	78	67	65	62	185
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3617.9	3617.9	3617.9	3617.9	3617.9
2.5°	3639.4	3626.5	3622.2	3637.2	3600.6
5°	3630.8	3617.9	3600.6	3609.2	3615.7
7.5°	3604.9	3594.1	3570.4	3589.8	3570.4
10°	3579.1	3568.3	3551.1	3557.5	3536.0
12.5°	3553.2	3527.4	3523.0	3527.4	3512.3
15°	3495.0	3503.6	3467.0	3462.7	3460.6
17.5°	3467.0	3445.5	3406.7	3408.8	3404.5
20°	3402.4	3376.5	3348.5	3344.2	3335.6
22.5°	3335.6	3305.4	3279.6	3292.5	3273.1
25°	3249.4	3245.1	3202.0	3214.9	3191.2
27.5°	3174.0	3158.9	3139.5	3111.5	3077.0
30°	3092.1	3077.0	3057.6	2984.3	2958.5
32.5°	3005.9	2988.7	2949.9	2863.7	2835.7
35°	2891.7	2887.4	2840.0	2743.0	2730.1
37.5°	2805.5	2758.1	2719.3	2620.2	2583.6
40°	2702.1	2676.2	2585.7	2490.9	2443.5
42.5°	2587.9	2557.7	2454.3	2353.0	2301.3
45°	2462.9	2441.3	2325.0	2202.2	2165.5
47.5°	2333.6	2314.2	2176.3	2057.8	2010.4
50°	2208.6	2184.9	2019.0	1904.8	1861.7
52.5°	2072.9	2034.1	1870.3	1758.3	1717.3
55°	1932.8	1874.6	1717.3	1616.1	1560.0
57.5°	1784.1	1730.3	1555.7	1450.2	1404.9
60°	1654.9	1579.4	1400.6	1292.9	1234.7
62.5°	1488.9	1424.3	1254.1	1126.9	1098.9
65°	1351.0	1249.8	1086.0	969.6	933.0
67.5°	1211.0	1092.5	926.5	808.0	788.6
70°	1058.0	935.2	764.9	648.6	616.3
72.5°	902.8	782.2	616.3	493.4	474.0
75°	752.0	614.1	456.8	362.0	321.1
77.5°	588.3	463.3	321.1	221.9	196.1
80°	437.4	312.4	185.3	131.4	129.3
82.5°	286.6	181.0	99.1	101.3	97.0
85°	146.5	77.6	66.8	64.6	62.5
87.5°	28.0	30.2	32.3	32.3	32.3
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)