

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: P1050475

Luminaire Tested: 24PTR-90-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050475
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-90-L830-UNV-STD-W
Description: 9000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

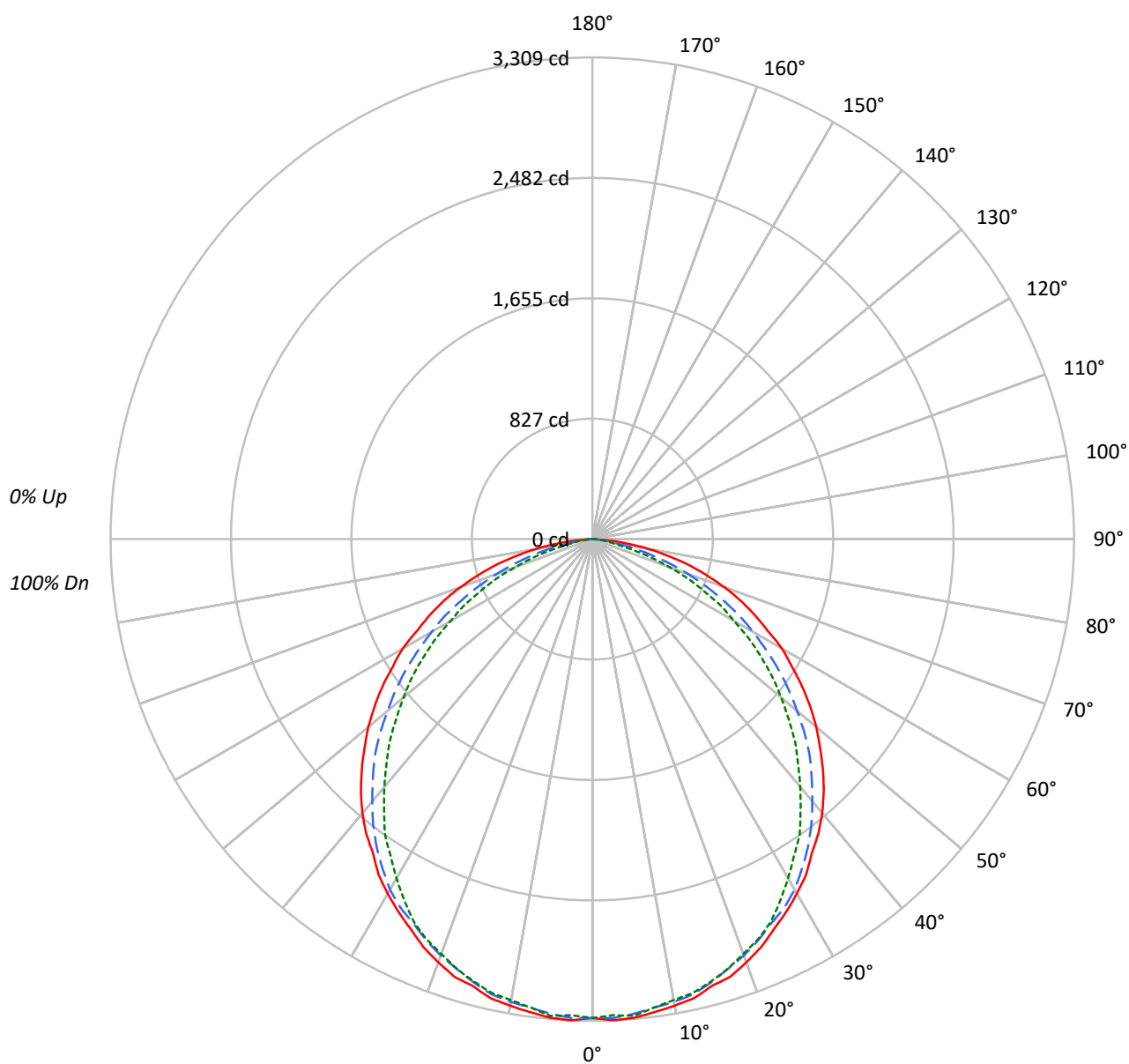
Lumens per Lamp: N/A
Luminaire Lumens: 8761.1 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 76
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°	4425	4425	4425
5°	4458	4421	4440
10°	4446	4411	4392
15°	4426	4391	4382
20°	4429	4359	4342
25°	4386	4322	4307
30°	4367	4319	4179
35°	4318	4241	4077
40°	4315	4129	3902
45°	4261	4022	3746
50°	4203	3842	3543
55°	4122	3662	3327
60°	4049	3426	3021
65°	3911	3143	2700
70°	3784	2736	2204
75°	3554	2159	1517
80°	3082	1306	910
85°	2056	937	877

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4261 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.8	3.6
10°-20°	892.2	10.2
20°-30°	1347.6	15.4
30°-40°	1602.3	18.3
40°-50°	1625.0	18.5
50°-60°	1411.1	16.1
60°-70°	1001.7	11.4
70°-80°	478.7	5.5
80°-90°	90.7	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°	2551.6	29.1
0°-40°	4153.8	47.4
0°-60°	7190.0	82.1
0°-90°	8761.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8761.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3289	3289	3289	3289	3289	
5°	3301	3289	3274	3281	3287	313
15°	3178	3185	3152	3148	3146	900
25°	2954	2950	2911	2923	2901	1364
35°	2629	2625	2582	2494	2482	1652
45°	2239	2220	2114	2002	1969	1727
55°	1757	1704	1561	1469	1418	1570
65°	1228	1136	987	882	848	1217
75°	684	558	415	329	292	717
85°	133	70	61	59	57	168
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3289.1	3289.1	3289.1	3289.1	3289.1
2.5°	3308.7	3297.0	3293.0	3306.8	3273.5
5°	3300.9	3289.1	3273.5	3281.3	3287.2
7.5°	3277.4	3267.6	3246.0	3263.7	3246.0
10°	3253.9	3244.1	3228.4	3234.3	3214.7
12.5°	3230.4	3206.8	3202.9	3206.8	3193.1
15°	3177.5	3185.3	3152.0	3148.1	3146.1
17.5°	3152.0	3132.4	3097.1	3099.1	3095.2
20°	3093.2	3069.7	3044.3	3040.3	3032.5
22.5°	3032.5	3005.1	2981.6	2993.3	2975.7
25°	2954.1	2950.2	2911.0	2922.8	2901.2
27.5°	2885.6	2871.9	2854.2	2828.8	2797.4
30°	2811.1	2797.4	2779.8	2713.2	2689.7
32.5°	2732.8	2717.1	2681.8	2603.5	2578.0
35°	2628.9	2625.0	2581.9	2493.8	2482.0
37.5°	2550.6	2507.5	2472.2	2382.1	2348.8
40°	2456.6	2433.1	2350.8	2264.6	2221.5
42.5°	2352.7	2325.3	2231.3	2139.2	2092.2
45°	2239.1	2219.5	2113.7	2002.1	1968.8
47.5°	2121.6	2103.9	1978.6	1870.8	1827.7
50°	2008.0	1986.4	1835.6	1731.7	1692.6
52.5°	1884.5	1849.3	1700.4	1598.5	1561.3
55°	1757.2	1704.3	1561.3	1469.2	1418.3
57.5°	1622.0	1573.1	1414.4	1318.4	1277.3
60°	1504.5	1435.9	1273.3	1175.4	1122.5
62.5°	1353.7	1294.9	1140.1	1024.5	999.1
65°	1228.3	1136.2	987.3	881.5	848.2
67.5°	1100.9	993.2	842.4	734.6	717.0
70°	961.9	850.2	695.4	589.7	560.3
72.5°	820.8	711.1	560.3	448.6	431.0
75°	683.7	558.3	415.3	329.1	291.9
77.5°	534.8	421.2	291.9	201.8	178.3
80°	397.7	284.1	168.5	119.5	117.5
82.5°	260.5	164.6	90.1	92.1	88.2
85°	133.2	70.5	60.7	58.8	56.8
87.5°	25.5	27.4	29.4	29.4	29.4
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)