

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: P1050781

Luminaire Tested: 24PTR-80-PLG-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050781
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2409-224-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-80-PLG-L830-UNV-STD-W
Description: 8000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

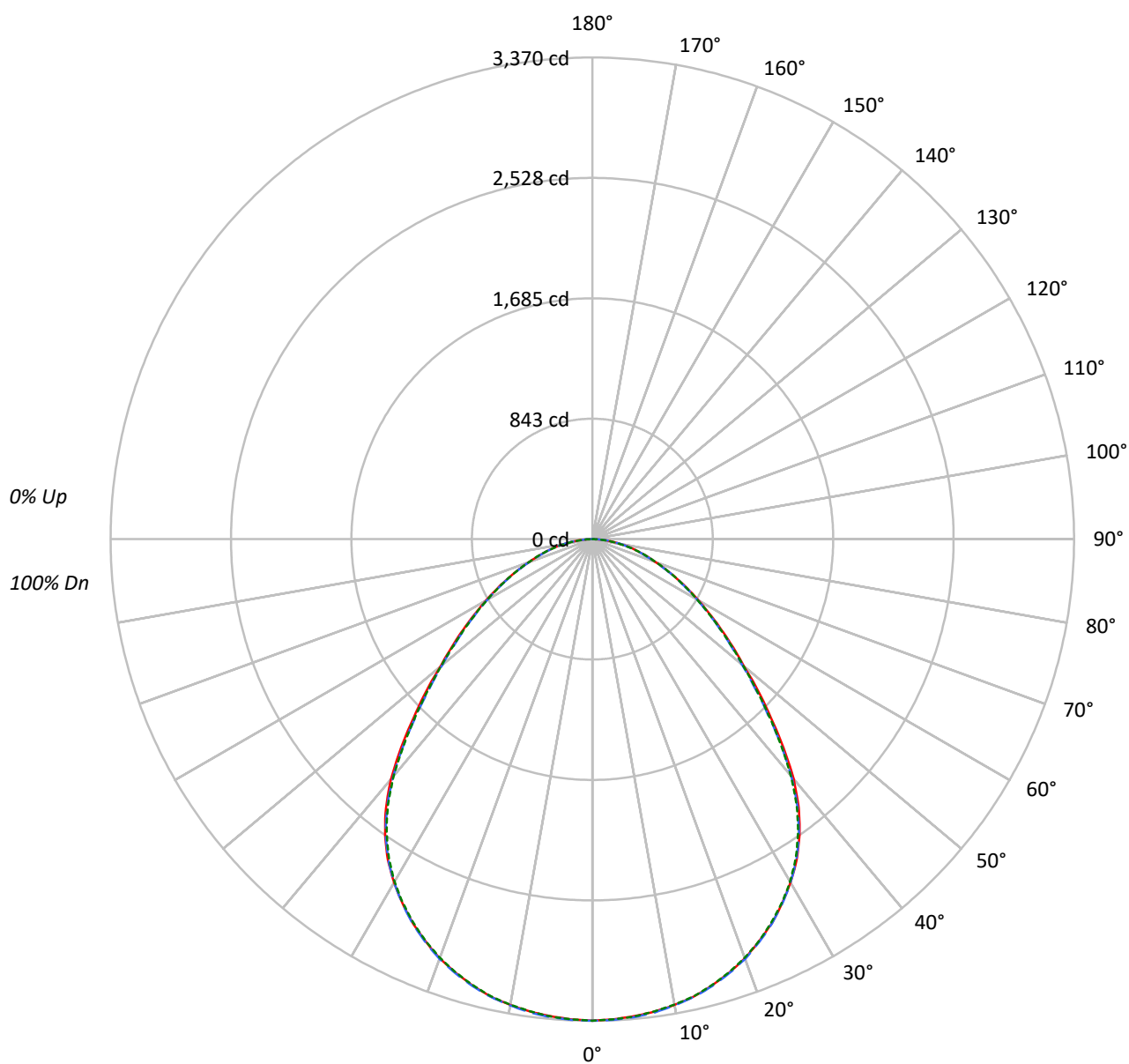
Lumens per Lamp: N/A
Luminaire Lumens: 7592.8 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 68
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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86	84	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74	72	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	69	66	64	62	64
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56	54	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49	47	49
6	74	61	53	47	72	60	52	47	58	51	46	57	51	46	55	50	45	43	41	43
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39	37	39
8	64	51	43	38	62	51	43	38	49	42	37	48	42	37	47	41	37	35	33	35
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32	30	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29	27	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4534	4534	4534
5°	4525	4535	4529
10°	4522	4525	4519
15°	4504	4511	4500
20°	4469	4476	4462
25°	4406	4410	4395
30°	4310	4310	4299
35°	4152	4140	4121
40°	3848	3806	3793
45°	3363	3308	3322
50°	2903	2868	2883
55°	2581	2541	2547
60°	2310	2278	2278
65°	2071	2056	2063
70°	1863	1844	1863
75°	1728	1703	1728
80°	1612	1594	1538
85°	1366	1366	1218

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3363 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.0	4.2
10°-20°	912.9	12.0
20°-30°	1365.9	18.0
30°-40°	1564.9	20.6
40°-50°	1353.5	17.8
50°-60°	979.5	12.9
60°-70°	645.2	8.5
70°-80°	351.2	4.6
80°-90°	100.7	1.3
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°	2597.8	34.2
0°-40°	4162.7	54.8
0°-60°	6495.7	85.6
0°-90°	7592.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7592.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3370	3370	3370	3370	3370	
5°	3350	3358	3358	3358	3353	319
15°	3233	3236	3238	3243	3231	912
25°	2968	2968	2970	2973	2961	1365
35°	2528	2525	2521	2518	2509	1570
45°	1767	1762	1739	1736	1746	1369
55°	1100	1095	1083	1076	1086	990
65°	650	655	646	641	648	649
75°	332	332	328	328	332	354
85°	88	88	88	91	79	102
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3369.6	3369.6	3369.6	3369.6	3369.6
2.5°	3362.5	3369.6	3367.2	3369.6	3362.5
5°	3350.5	3357.7	3357.7	3357.7	3352.9
7.5°	3333.8	3338.5	3340.9	3343.3	3331.4
10°	3309.8	3314.6	3312.2	3317.0	3307.4
12.5°	3278.7	3278.7	3281.1	3285.9	3276.4
15°	3233.3	3235.7	3238.1	3242.9	3230.9
17.5°	3180.7	3183.1	3185.5	3187.9	3178.3
20°	3120.9	3120.9	3125.7	3128.1	3116.1
22.5°	3046.8	3046.8	3051.6	3058.7	3044.4
25°	2967.9	2967.9	2970.2	2972.6	2960.7
27.5°	2874.6	2874.6	2877.0	2884.2	2869.8
30°	2774.1	2771.8	2774.1	2776.5	2767.0
32.5°	2661.7	2659.3	2657.0	2659.3	2647.4
35°	2527.8	2525.4	2520.6	2518.3	2508.7
37.5°	2372.4	2367.6	2358.0	2358.0	2348.5
40°	2190.6	2178.7	2166.7	2161.9	2159.5
42.5°	1980.2	1970.6	1953.9	1951.5	1951.5
45°	1767.3	1762.5	1738.6	1736.2	1745.8
47.5°	1576.0	1564.0	1542.5	1537.7	1552.1
50°	1387.1	1389.5	1370.3	1363.2	1377.5
52.5°	1238.8	1234.0	1217.3	1212.5	1224.4
55°	1100.1	1095.3	1083.4	1076.2	1085.7
57.5°	973.3	970.9	959.0	956.6	961.4
60°	858.5	856.2	846.6	844.2	846.6
62.5°	750.9	750.9	741.4	736.6	743.8
65°	650.5	655.3	645.7	640.9	648.1
67.5°	559.6	564.4	554.8	550.0	559.6
70°	473.5	478.3	468.7	464.0	473.5
72.5°	399.4	401.8	394.6	392.2	404.2
75°	332.4	332.4	327.6	327.6	332.4
77.5°	270.2	267.8	265.5	265.5	260.7
80°	208.1	205.7	205.7	205.7	198.5
82.5°	148.3	143.5	145.9	148.3	136.3
85°	88.5	88.5	88.5	90.9	78.9
87.5°	35.9	35.9	33.5	35.9	31.1
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)