

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: P1050280

Luminaire Tested: PTR-14-70-PLG-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050280
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: PTR-14-70-PLG-L850-UNV-STD-W
Description: 7000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

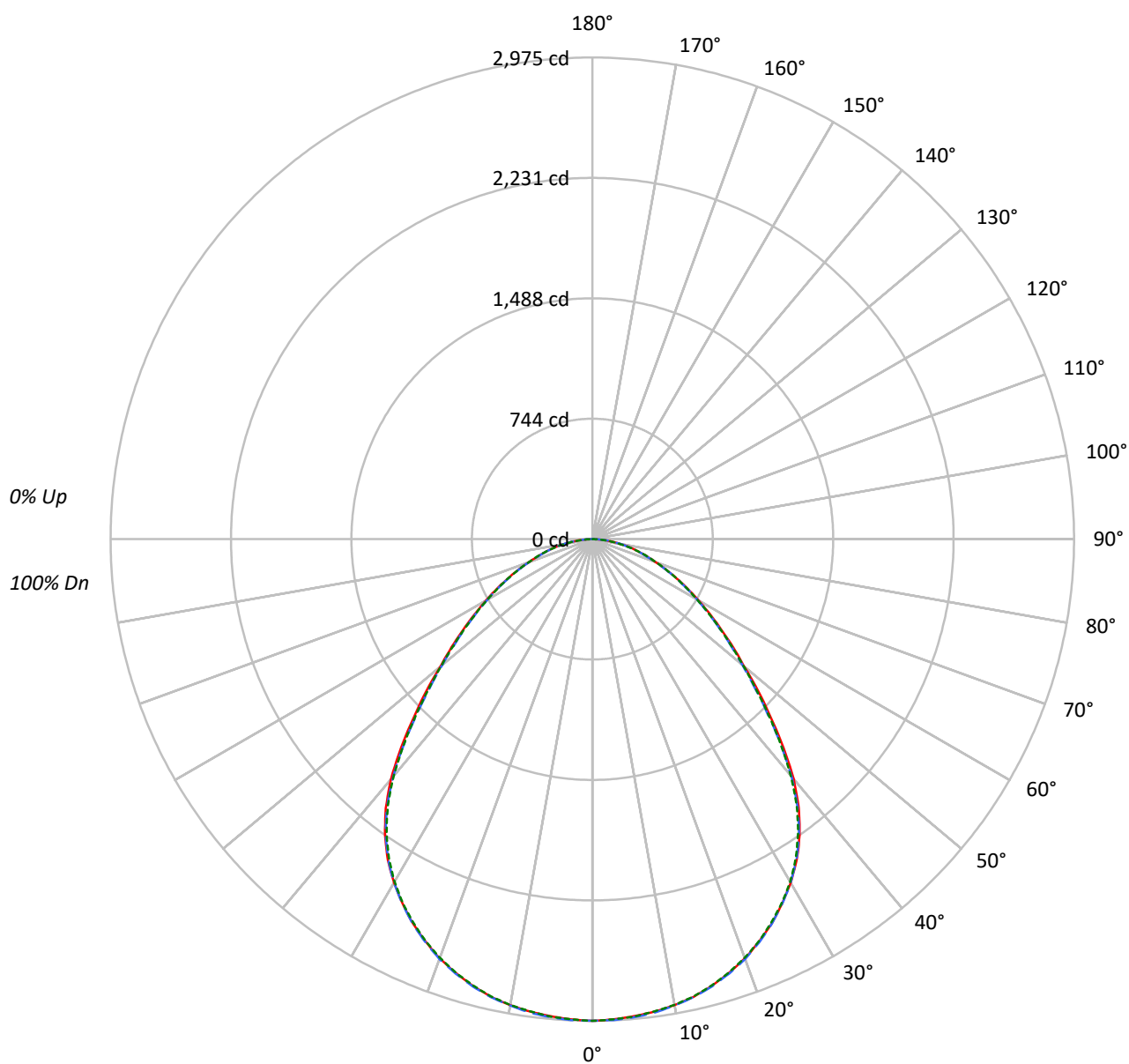
Lumens per Lamp: N/A
Luminaire Lumens: 6704.2 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 63
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°	8006	8006	8006
5°	7991	8008	7997
10°	7986	7991	7980
15°	7953	7965	7948
20°	7891	7903	7879
25°	7781	7787	7762
30°	7611	7611	7592
35°	7332	7312	7277
40°	6795	6721	6698
45°	5939	5842	5866
50°	5128	5066	5092
55°	4557	4488	4498
60°	4080	4023	4023
65°	3657	3630	3644
70°	3290	3257	3290
75°	3052	3008	3052
80°	2847	2814	2717
85°	2411	2411	2152

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5939 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.7	4.2
10°-20°	806.0	12.0
20°-30°	1206.1	18.0
30°-40°	1381.8	20.6
40°-50°	1195.1	17.8
50°-60°	864.9	12.9
60°-70°	569.7	8.5
70°-80°	310.1	4.6
80°-90°	88.9	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°	2293.8	34.2
0°-40°	3675.6	54.8
0°-60°	5735.6	85.6
0°-90°	6704.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6704.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2975	2975	2975	2975	2975	
5°	2958	2965	2965	2965	2960	281
15°	2855	2857	2859	2863	2853	805
25°	2621	2621	2623	2625	2614	1205
35°	2232	2230	2226	2224	2215	1387
45°	1560	1556	1535	1533	1542	1208
55°	971	967	957	950	959	874
65°	574	579	570	566	572	573
75°	294	294	289	289	294	313
85°	78	78	78	80	70	90
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2975.3	2975.3	2975.3	2975.3	2975.3
2.5°	2969.0	2975.3	2973.2	2975.3	2969.0
5°	2958.4	2964.7	2964.7	2964.7	2960.5
7.5°	2943.6	2947.9	2950.0	2952.1	2941.5
10°	2922.5	2926.7	2924.6	2928.9	2920.4
12.5°	2895.1	2895.1	2897.2	2901.4	2893.0
15°	2854.9	2857.1	2859.2	2863.4	2852.8
17.5°	2808.5	2810.6	2812.7	2814.8	2806.4
20°	2755.7	2755.7	2759.9	2762.0	2751.5
22.5°	2690.2	2690.2	2694.5	2700.8	2688.1
25°	2620.6	2620.6	2622.7	2624.8	2614.2
27.5°	2538.2	2538.2	2540.3	2546.6	2534.0
30°	2449.5	2447.4	2449.5	2451.6	2443.2
32.5°	2350.3	2348.1	2346.0	2348.1	2337.6
35°	2232.0	2229.9	2225.7	2223.6	2215.1
37.5°	2094.8	2090.5	2082.1	2082.1	2073.6
40°	1934.3	1923.7	1913.2	1908.9	1906.8
42.5°	1748.4	1740.0	1725.2	1723.1	1723.1
45°	1560.5	1556.3	1535.2	1533.1	1541.5
47.5°	1391.6	1381.0	1362.0	1357.8	1370.5
50°	1224.8	1226.9	1210.0	1203.6	1216.3
52.5°	1093.8	1089.6	1074.8	1070.6	1081.2
55°	971.4	967.1	956.6	950.2	958.7
57.5°	859.4	857.3	846.8	844.7	848.9
60°	758.1	756.0	747.5	745.4	747.5
62.5°	663.1	663.1	654.6	650.4	656.7
65°	574.4	578.6	570.1	565.9	572.3
67.5°	494.1	498.3	489.9	485.7	494.1
70°	418.1	422.3	413.9	409.7	418.1
72.5°	352.6	354.8	348.4	346.3	356.9
75°	293.5	293.5	289.3	289.3	293.5
77.5°	238.6	236.5	234.4	234.4	230.2
80°	183.7	181.6	181.6	181.6	175.3
82.5°	130.9	126.7	128.8	130.9	120.4
85°	78.1	78.1	78.1	80.2	69.7
87.5°	31.7	31.7	29.6	31.7	27.5
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)