

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: P1050582

Luminaire Tested: 24PTR-72-PB1-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050582
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737703)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-72-PB1-L850-UNV-STD-W
Description: 7200 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

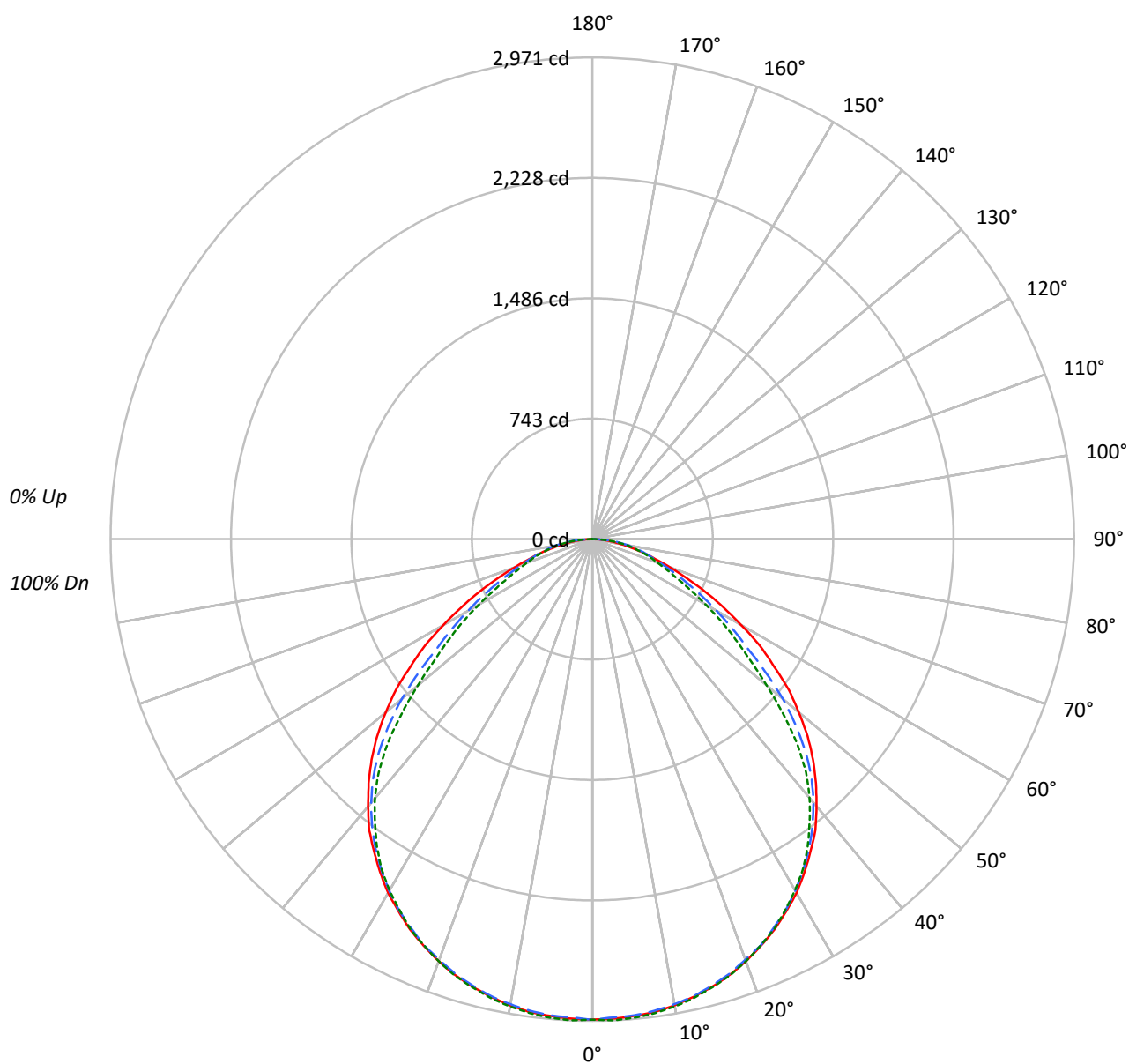
Lumens per Lamp: N/A
Luminaire Lumens: 7390.4 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 60
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	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64	62		
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54		
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47		
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42		
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37		
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	33		
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30		
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3988	3988	3988
5°	3988	3983	4003
10°	3990	3980	4000
15°	3981	3971	3986
20°	3967	3952	3967
25°	3945	3929	3940
30°	3914	3891	3885
35°	3856	3826	3803
40°	3778	3727	3662
45°	3662	3544	3399
50°	3480	3212	2938
55°	3207	2728	2531
60°	2855	2384	2168
65°	2449	2067	1846
70°	2022	1822	1692
75°	1705	1743	1650
80°	1441	1779	1696
85°	1129	1802	1578

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3662 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.0	3.8
10°-20°	806.4	10.9
20°-30°	1221.5	16.5
30°-40°	1455.5	19.7
40°-50°	1423.3	19.3
50°-60°	1076.6	14.6
60°-70°	661.4	8.9
70°-80°	352.4	4.8
80°-90°	112.4	1.5
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°	2308.9	31.2
0°-40°	3764.3	50.9
0°-60°	6264.2	84.8
0°-90°	7390.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7390.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2964	2964	2964	2964	2964	
5°	2953	2956	2949	2960	2964	281
15°	2858	2862	2851	2862	2862	807
25°	2658	2654	2646	2650	2654	1224
35°	2348	2344	2330	2318	2315	1468
45°	1925	1914	1863	1801	1786	1481
55°	1367	1298	1163	1097	1079	1224
65°	769	707	649	598	580	765
75°	328	332	335	325	317	352
85°	73	95	117	110	102	88
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2963.8	2963.8	2963.8	2963.8	2963.8
2.5°	2960.4	2963.8	2952.7	2967.6	2971.1
5°	2952.7	2956.5	2949.3	2960.4	2963.8
7.5°	2942.0	2942.0	2934.7	2945.4	2949.3
10°	2920.2	2920.2	2912.9	2923.6	2927.5
12.5°	2891.1	2891.1	2887.3	2894.5	2898.4
15°	2858.2	2861.6	2850.9	2861.6	2861.6
17.5°	2818.0	2814.6	2810.7	2818.0	2821.8
20°	2770.5	2770.5	2759.8	2767.1	2770.5
22.5°	2715.8	2715.8	2712.4	2715.8	2712.4
25°	2657.6	2653.8	2646.5	2650.4	2653.8
27.5°	2588.4	2588.4	2581.1	2581.1	2577.3
30°	2519.1	2515.3	2504.6	2497.3	2500.7
32.5°	2435.3	2431.4	2420.7	2413.5	2416.9
35°	2347.6	2344.2	2329.6	2318.5	2315.1
37.5°	2260.4	2249.3	2230.9	2216.4	2201.8
40°	2150.9	2139.8	2121.8	2088.9	2085.1
42.5°	2041.5	2030.7	2001.3	1961.5	1950.4
45°	1924.7	1914.0	1862.7	1800.7	1786.2
47.5°	1800.7	1782.7	1702.4	1625.8	1596.7
50°	1662.6	1629.6	1534.7	1436.4	1403.5
52.5°	1527.5	1469.3	1345.3	1257.6	1225.1
55°	1367.1	1297.8	1163.1	1097.3	1078.9
57.5°	1225.1	1130.2	1020.7	955.3	940.7
60°	1060.9	973.3	886.0	827.5	805.6
62.5°	911.3	834.7	762.0	710.7	685.5
65°	769.3	707.3	649.1	597.8	579.8
67.5°	630.7	597.8	550.4	510.6	499.5
70°	514.0	495.6	463.1	444.7	430.2
72.5°	408.4	415.6	393.8	386.6	375.5
75°	328.0	331.8	335.3	324.6	317.3
77.5°	248.0	266.0	280.5	273.3	266.0
80°	186.0	204.0	229.6	218.9	218.9
82.5°	127.4	149.6	171.5	164.2	160.4
85°	73.1	94.9	116.7	109.5	102.2
87.5°	29.1	47.5	50.9	50.9	47.5
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)