

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: P1050618

Luminaire Tested: 24PTR-90-PB1-L940-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050618
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-90-PB1-L940-UNV-STD-W
Description: 9000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

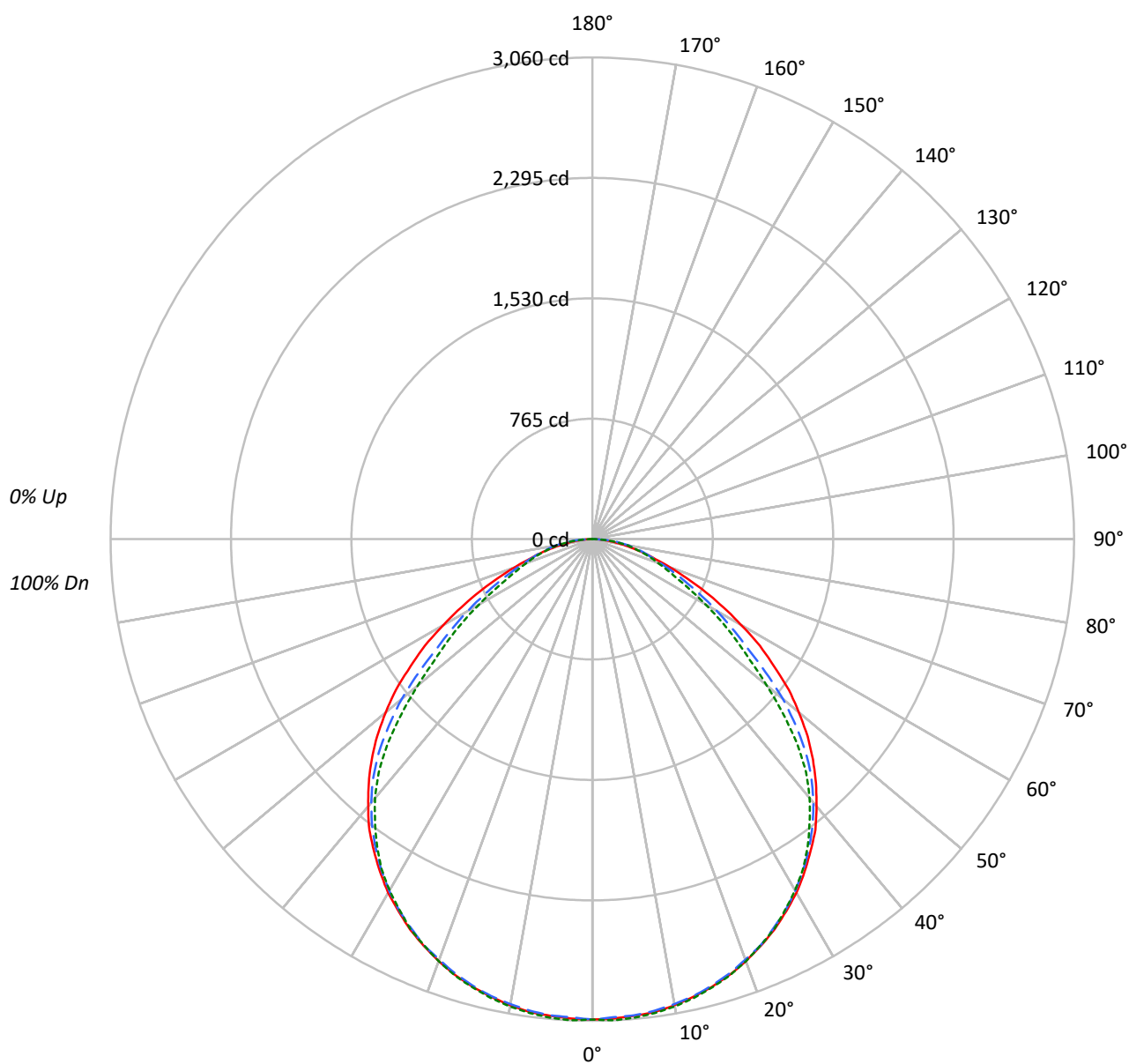
Lumens per Lamp: N/A
Luminaire Lumens: 7610.6 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P1050618

CATALOG NUMBER: 24PTR-90-PB1-L940-UNV-STD-W

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4107	4107	4107
5°	4107	4102	4122
10°	4109	4098	4119
15°	4100	4090	4105
20°	4085	4069	4085
25°	4063	4046	4057
30°	4030	4007	4001
35°	3971	3941	3916
40°	3890	3838	3771
45°	3772	3650	3500
50°	3584	3308	3025
55°	3302	2810	2606
60°	2940	2455	2232
65°	2522	2128	1901
70°	2082	1876	1743
75°	1756	1795	1698
80°	1484	1832	1746
85°	1162	1856	1624

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3772 cd/sqm

TEST NUMBER: P1050618

CATALOG NUMBER: 24PTR-90-PB1-L940-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.4	3.8
10°-20°	830.4	10.9
20°-30°	1257.9	16.5
30°-40°	1498.8	19.7
40°-50°	1465.7	19.3
50°-60°	1108.6	14.6
60°-70°	681.1	8.9
70°-80°	362.9	4.8
80°-90°	115.8	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°	2377.7	31.2
0°-40°	3876.5	50.9
0°-60°	6450.9	84.8
0°-90°	7610.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7610.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3052	3052	3052	3052	3052	
5°	3041	3045	3037	3049	3052	289
15°	2943	2947	2936	2947	2947	831
25°	2737	2733	2725	2729	2733	1260
35°	2418	2414	2399	2388	2384	1512
45°	1982	1971	1918	1854	1839	1525
55°	1408	1336	1198	1130	1111	1261
65°	792	728	668	616	597	788
75°	338	342	345	334	327	362
85°	75	98	120	113	105	90
90°	0	0	0	0	0	

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CATALOG NUMBER: 24PTR-90-PB1-L940-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3052.1	3052.1	3052.1	3052.1	3052.1
2.5°	3048.6	3052.1	3040.7	3056.1	3059.6
5°	3040.7	3044.6	3037.1	3048.6	3052.1
7.5°	3029.7	3029.7	3022.2	3033.2	3037.1
10°	3007.2	3007.2	2999.7	3010.7	3014.7
12.5°	2977.2	2977.2	2973.3	2980.8	2984.7
15°	2943.3	2946.9	2935.9	2946.9	2946.9
17.5°	2902.0	2898.4	2894.5	2902.0	2905.9
20°	2853.1	2853.1	2842.1	2849.5	2853.1
22.5°	2796.7	2796.7	2793.2	2796.7	2793.2
25°	2736.8	2732.9	2725.4	2729.3	2732.9
27.5°	2665.5	2665.5	2658.0	2658.0	2654.1
30°	2594.1	2590.2	2579.2	2571.7	2575.2
32.5°	2507.8	2503.9	2492.9	2485.4	2488.9
35°	2417.6	2414.0	2399.1	2387.6	2384.1
37.5°	2327.7	2316.3	2297.4	2282.4	2267.4
40°	2215.0	2203.6	2185.0	2151.1	2147.2
42.5°	2102.3	2091.2	2060.9	2019.9	2008.5
45°	1982.1	1971.0	1918.2	1854.4	1839.4
47.5°	1854.4	1835.8	1753.1	1674.3	1644.3
50°	1712.1	1678.2	1580.5	1479.2	1445.3
52.5°	1573.0	1513.1	1385.4	1295.1	1261.6
55°	1407.8	1336.5	1197.8	1130.0	1111.0
57.5°	1261.6	1163.9	1051.1	983.7	968.8
60°	1092.5	1002.3	912.4	852.1	829.6
62.5°	938.4	859.6	784.7	731.9	705.9
65°	792.2	728.3	668.4	615.6	597.1
67.5°	649.5	615.6	566.8	525.8	514.3
70°	529.3	510.4	476.9	458.0	443.0
72.5°	420.5	428.0	405.6	398.1	386.6
75°	337.8	341.7	345.3	334.2	326.7
77.5°	255.4	273.9	288.9	281.4	273.9
80°	191.5	210.1	236.5	225.4	225.4
82.5°	131.2	154.1	176.6	169.1	165.1
85°	75.3	97.7	120.2	112.7	105.2
87.5°	30.0	48.9	52.4	52.4	48.9
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)