

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: P1051078

Luminaire Tested: 24PTR-80-PW1-L940-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1051078
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737743)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-80-PW1-L940-UNV-STD-W
Description: 8000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND WAVES LENS

Light Source:
Ballast/Driver: -

Summary

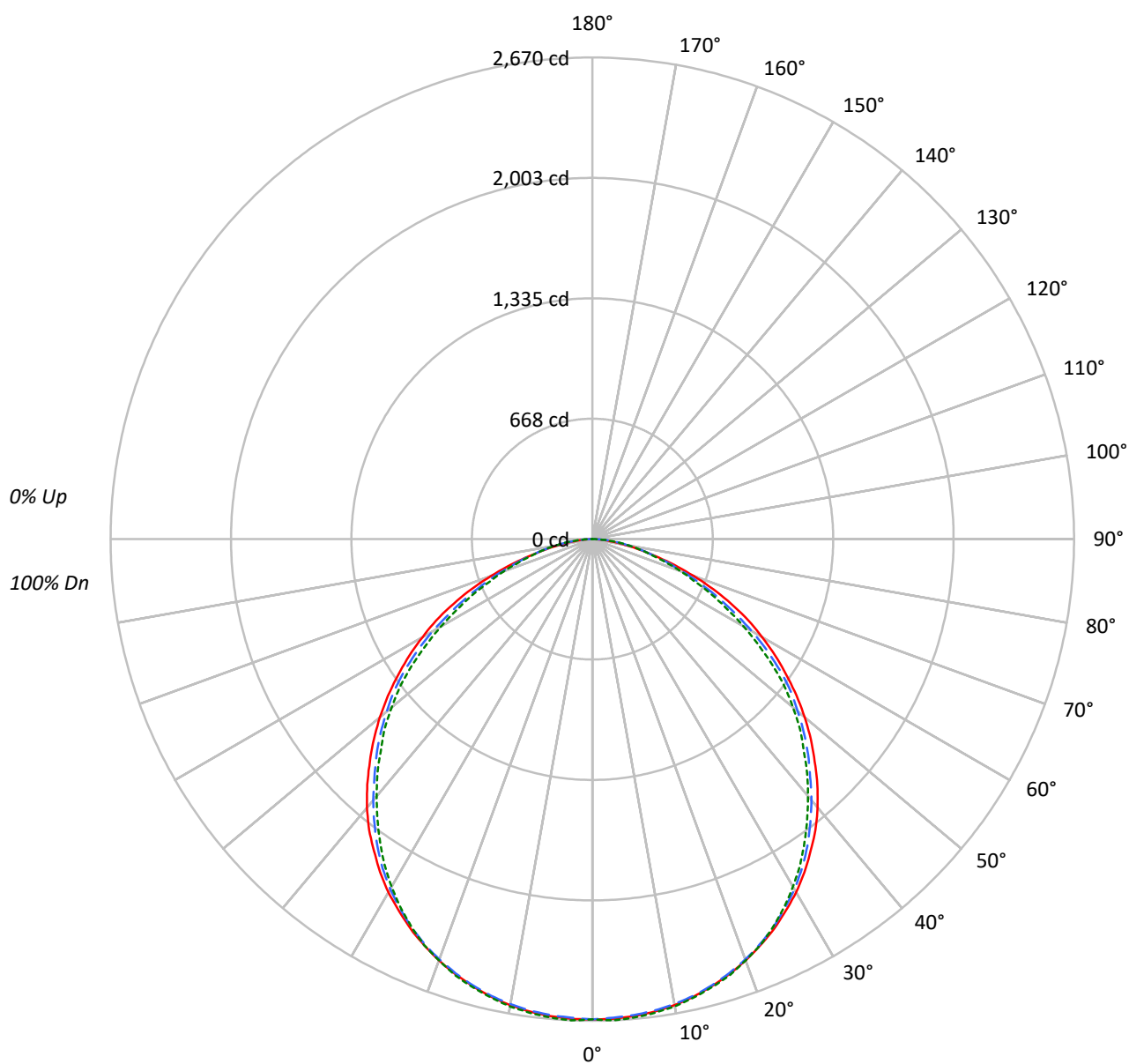
Lumens per Lamp: N/A
Luminaire Lumens: 7065.5 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	87	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	74	74	71
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	57	68	61	56	66	60	55	64	59	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	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	33	33	31
9	58	44	36	31	56	44	36	31	43	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	28	38	32	27	27	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3582	3582	3582
5°	3585	3578	3596
10°	3584	3576	3593
15°	3573	3567	3581
20°	3558	3550	3558
25°	3539	3524	3521
30°	3512	3481	3456
35°	3465	3412	3369
40°	3411	3318	3266
45°	3317	3219	3153
50°	3217	3112	3040
55°	3083	2978	2860
60°	2923	2750	2606
65°	2704	2456	2334
70°	2344	2138	2057
75°	1871	1830	1779
80°	1422	1588	1588
85°	1051	1355	1355

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3317 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.5	3.6
10°-20°	724.2	10.2
20°-30°	1094.5	15.5
30°-40°	1299.6	18.4
40°-50°	1309.3	18.5
50°-60°	1131.8	16.0
60°-70°	773.5	10.9
70°-80°	381.4	5.4
80°-90°	98.6	1.4
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°	2071.2	29.3
0°-40°	3370.8	47.7
0°-60°	5811.9	82.3
0°-90°	7065.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7065.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2662	2662	2662	2662	2662	
5°	2654	2656	2649	2660	2662	252
15°	2565	2568	2561	2570	2571	724
25°	2384	2381	2374	2376	2372	1098
35°	2109	2102	2077	2059	2051	1320
45°	1743	1724	1692	1672	1657	1345
55°	1314	1310	1270	1232	1219	1175
65°	849	819	771	738	733	838
75°	360	357	352	352	342	392
85°	68	80	88	90	88	83
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2662.4	2662.4	2662.4	2662.4	2662.4
2.5°	2661.7	2662.4	2655.6	2667.4	2670.3
5°	2654.5	2655.6	2648.8	2659.5	2662.4
7.5°	2642.0	2643.8	2635.9	2646.6	2648.8
10°	2623.0	2624.0	2617.2	2628.0	2630.1
12.5°	2597.5	2598.2	2592.5	2602.2	2602.2
15°	2564.9	2567.8	2560.9	2569.9	2570.6
17.5°	2528.3	2529.4	2522.6	2532.3	2534.4
20°	2484.9	2484.9	2479.2	2487.1	2484.9
22.5°	2436.6	2436.6	2429.7	2433.7	2435.5
25°	2383.5	2381.3	2373.5	2375.6	2371.7
27.5°	2322.2	2322.2	2308.2	2308.2	2301.4
30°	2260.2	2255.2	2240.5	2231.5	2224.7
32.5°	2188.8	2182.0	2163.4	2147.6	2142.6
35°	2109.3	2102.1	2077.4	2058.7	2050.8
37.5°	2032.2	2016.4	1983.8	1965.2	1956.2
40°	1942.2	1922.5	1889.2	1863.4	1859.4
42.5°	1845.8	1830.0	1786.6	1767.6	1763.0
45°	1743.3	1724.3	1691.6	1671.9	1657.2
47.5°	1642.5	1628.6	1591.3	1567.6	1562.6
50°	1536.8	1525.0	1486.6	1461.1	1452.2
52.5°	1427.4	1419.6	1386.9	1354.3	1343.6
55°	1314.2	1310.2	1269.7	1232.1	1219.2
57.5°	1202.7	1197.7	1147.1	1103.7	1091.9
60°	1086.2	1071.5	1022.0	981.5	968.6
62.5°	975.8	944.2	890.8	859.3	844.6
65°	849.2	818.8	771.4	737.7	733.1
67.5°	725.2	688.6	652.1	631.3	615.5
70°	595.8	571.1	543.4	525.9	523.0
72.5°	475.3	457.8	443.8	433.0	424.1
75°	359.9	357.0	352.0	352.0	342.3
77.5°	264.6	271.4	275.3	274.2	276.4
80°	183.5	197.2	205.0	206.1	205.0
82.5°	116.5	132.3	145.2	147.0	149.1
85°	68.1	79.9	87.8	89.6	87.8
87.5°	30.5	38.4	40.5	42.3	40.5
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)