

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: P1050616

Luminaire Tested: 24PTR-80-PB1-L940-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050616
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-80-PB1-L940-UNV-STD-W
Description: 8000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

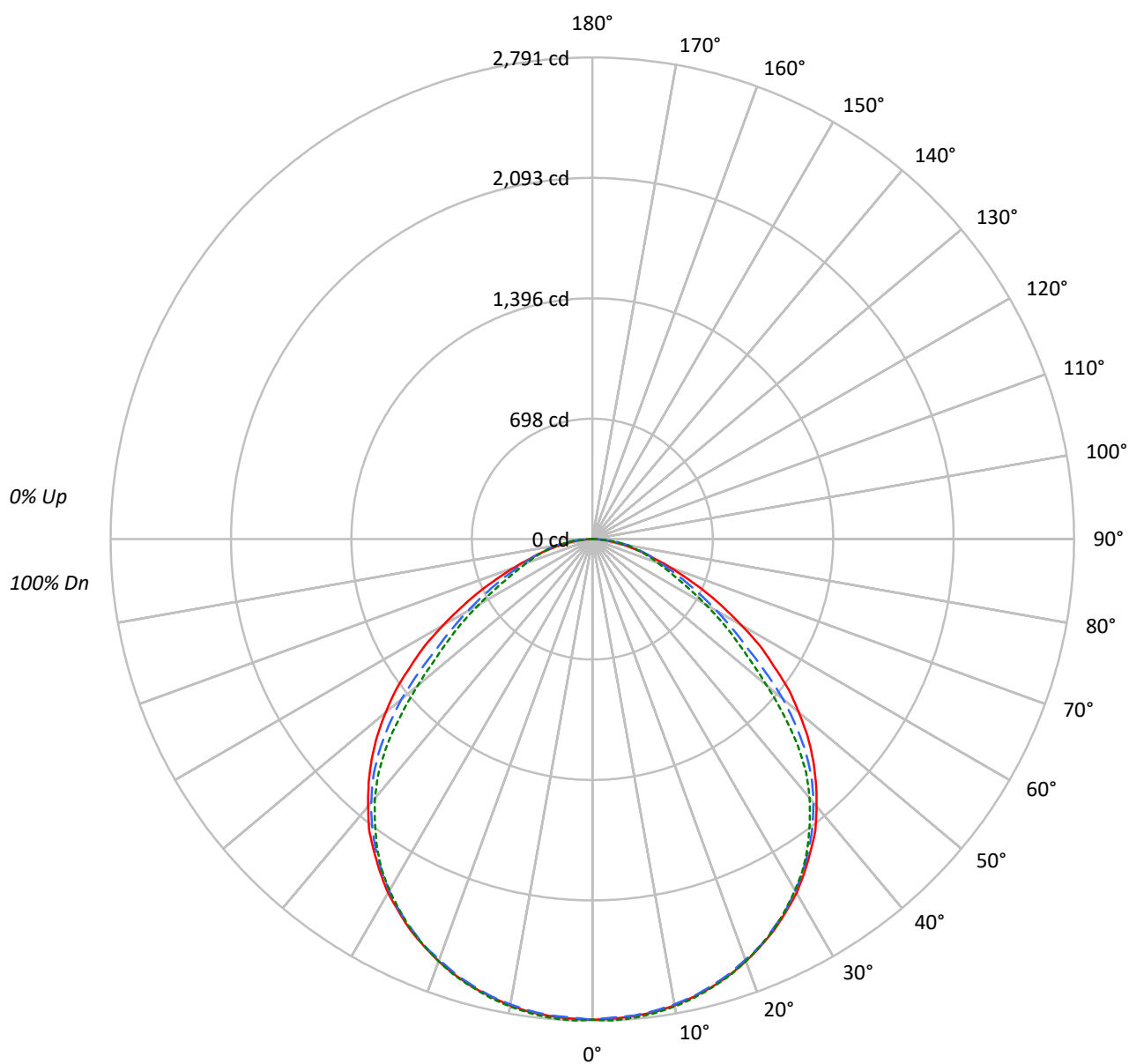
Lumens per Lamp: N/A
Luminaire Lumens: 6943.3 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	3747	3747	3747
5°	3747	3742	3761
10°	3748	3739	3758
15°	3740	3731	3745
20°	3727	3712	3727
25°	3707	3691	3701
30°	3677	3656	3650
35°	3623	3595	3573
40°	3549	3501	3441
45°	3441	3330	3193
50°	3270	3018	2760
55°	3013	2563	2378
60°	2682	2240	2037
65°	2301	1941	1734
70°	1900	1712	1590
75°	1602	1638	1550
80°	1354	1671	1594
85°	1061	1694	1482

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3441 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.0	3.8
10°-20°	757.6	10.9
20°-30°	1147.6	16.5
30°-40°	1367.4	19.7
40°-50°	1337.2	19.3
50°-60°	1011.4	14.6
60°-70°	621.4	8.9
70°-80°	331.0	4.8
80°-90°	105.6	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°	2169.2	31.2
0°-40°	3536.6	50.9
0°-60°	5885.2	84.8
0°-90°	6943.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6943.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2784	2784	2784	2784	2784	
5°	2774	2778	2771	2781	2784	264
15°	2685	2688	2678	2688	2688	758
25°	2497	2493	2486	2490	2493	1150
35°	2206	2202	2189	2178	2175	1380
45°	1808	1798	1750	1692	1678	1391
55°	1284	1219	1093	1031	1014	1150
65°	723	664	610	562	545	719
75°	308	312	315	305	298	330
85°	69	89	110	103	96	82
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2784.5	2784.5	2784.5	2784.5	2784.5
2.5°	2781.3	2784.5	2774.1	2788.1	2791.3
5°	2774.1	2777.7	2770.8	2781.3	2784.5
7.5°	2764.0	2764.0	2757.2	2767.2	2770.8
10°	2743.5	2743.5	2736.7	2746.7	2750.3
12.5°	2716.2	2716.2	2712.6	2719.4	2723.0
15°	2685.2	2688.5	2678.4	2688.5	2688.5
17.5°	2647.5	2644.3	2640.7	2647.5	2651.1
20°	2602.9	2602.9	2592.8	2599.7	2602.9
22.5°	2551.5	2551.5	2548.3	2551.5	2548.3
25°	2496.8	2493.2	2486.4	2490.0	2493.2
27.5°	2431.8	2431.8	2424.9	2424.9	2421.3
30°	2366.7	2363.1	2353.0	2346.2	2349.4
32.5°	2287.9	2284.3	2274.3	2267.4	2270.7
35°	2205.6	2202.3	2188.7	2178.3	2175.0
37.5°	2123.6	2113.2	2095.9	2082.3	2068.6
40°	2020.8	2010.3	1993.4	1962.5	1958.9
42.5°	1917.9	1907.9	1880.2	1842.8	1832.4
45°	1808.3	1798.2	1750.0	1691.8	1678.1
47.5°	1691.8	1674.9	1599.4	1527.4	1500.1
50°	1562.0	1531.0	1441.9	1349.5	1318.5
52.5°	1435.0	1380.4	1263.9	1181.5	1151.0
55°	1284.4	1219.3	1092.7	1030.9	1013.6
57.5°	1151.0	1061.8	959.0	897.5	883.8
60°	996.7	914.4	832.4	777.4	756.9
62.5°	856.1	784.2	715.9	667.7	644.0
65°	722.7	664.5	609.8	561.6	544.7
67.5°	592.6	561.6	517.1	479.7	469.2
70°	482.9	465.6	435.1	417.8	404.2
72.5°	383.7	390.5	370.0	363.2	352.7
75°	308.1	311.7	315.0	304.9	298.1
77.5°	233.0	249.9	263.6	256.7	249.9
80°	174.7	191.6	215.7	205.7	205.7
82.5°	119.7	140.6	161.1	154.3	150.7
85°	68.7	89.2	109.7	102.8	96.0
87.5°	27.3	44.6	47.8	47.8	44.6
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)