

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: P1050617

Luminaire Tested: 24PTR-100-PB1-L940-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050617
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-100-PB1-L940-UNV-STD-W
Description: 10000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

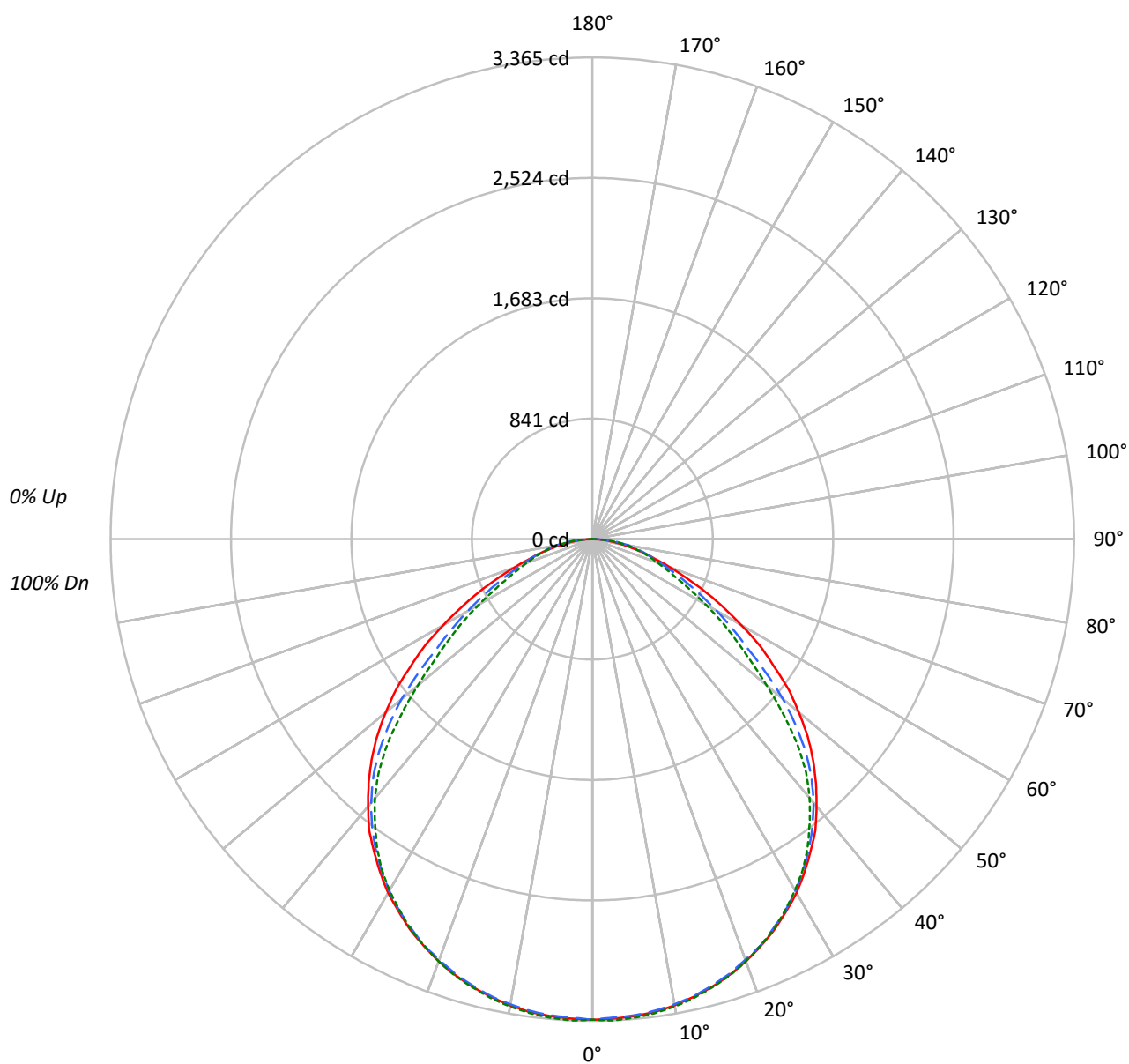
Lumens per Lamp: N/A
Luminaire Lumens: 8371.1 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 85
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: P1050617

CATALOG NUMBER: 24PTR-100-PB1-L940-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1050617

CATALOG NUMBER: 24PTR-100-PB1-L940-UNV-STD-W

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°	4517	4517	4517
5°	4517	4512	4534
10°	4519	4508	4530
15°	4510	4498	4515
20°	4493	4476	4493
25°	4469	4450	4463
30°	4433	4408	4401
35°	4368	4334	4307
40°	4279	4221	4148
45°	4148	4015	3850
50°	3942	3639	3328
55°	3632	3090	2867
60°	3234	2701	2456
65°	2774	2341	2091
70°	2290	2063	1917
75°	1931	1974	1868
80°	1633	2015	1922
85°	1278	2041	1786

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4148 cd/sqm

TEST NUMBER: P1050617

CATALOG NUMBER: 24PTR-100-PB1-L940-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.3	3.8
10°-20°	913.4	10.9
20°-30°	1383.6	16.5
30°-40°	1648.6	19.7
40°-50°	1612.2	19.3
50°-60°	1219.4	14.6
60°-70°	749.2	8.9
70°-80°	399.1	4.8
80°-90°	127.4	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°	2615.2	31.2
0°-40°	4263.9	50.9
0°-60°	7095.4	84.8
0°-90°	8371.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8371.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3357	3357	3357	3357	3357	
5°	3344	3349	3341	3353	3357	318
15°	3238	3241	3229	3241	3241	914
25°	3010	3006	2998	3002	3006	1386
35°	2659	2655	2639	2626	2622	1663
45°	2180	2168	2110	2040	2023	1677
55°	1548	1470	1317	1243	1222	1387
65°	871	801	735	677	657	867
75°	372	376	380	368	359	398
85°	83	108	132	124	116	99
90°	0	0	0	0	0	

TEST NUMBER: P1050617

CATALOG NUMBER: 24PTR-100-PB1-L940-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3357.1	3357.1	3357.1	3357.1	3357.1
2.5°	3353.2	3357.1	3344.5	3361.4	3365.3
5°	3344.5	3348.9	3340.6	3353.2	3357.1
7.5°	3332.4	3332.4	3324.2	3336.3	3340.6
10°	3307.7	3307.7	3299.4	3311.6	3315.9
12.5°	3274.7	3274.7	3270.4	3278.6	3283.0
15°	3237.5	3241.4	3229.2	3241.4	3241.4
17.5°	3191.9	3188.0	3183.7	3191.9	3196.3
20°	3138.2	3138.2	3126.0	3134.3	3138.2
22.5°	3076.2	3076.2	3072.3	3076.2	3072.3
25°	3010.3	3006.0	2997.7	3002.1	3006.0
27.5°	2931.8	2931.8	2923.6	2923.6	2919.3
30°	2853.4	2849.0	2836.9	2828.7	2832.6
32.5°	2758.4	2754.1	2742.0	2733.7	2737.6
35°	2659.2	2655.2	2638.8	2626.2	2622.3
37.5°	2560.3	2547.7	2526.9	2510.5	2494.0
40°	2436.3	2423.8	2403.4	2366.1	2361.8
42.5°	2312.3	2300.2	2266.8	2221.7	2209.2
45°	2180.1	2168.0	2109.9	2039.7	2023.2
47.5°	2039.7	2019.3	1928.3	1841.6	1808.6
50°	1883.2	1845.9	1738.4	1627.0	1589.7
52.5°	1730.1	1664.2	1523.8	1424.5	1387.7
55°	1548.5	1470.0	1317.4	1242.9	1222.1
57.5°	1387.7	1280.2	1156.2	1082.0	1065.6
60°	1201.7	1102.4	1003.6	937.2	912.5
62.5°	1032.2	945.5	863.1	805.0	776.4
65°	871.4	801.1	735.2	677.1	656.8
67.5°	714.4	677.1	623.4	578.3	565.7
70°	582.2	561.4	524.5	503.7	487.3
72.5°	462.6	470.8	446.1	437.8	425.3
75°	371.5	375.9	379.8	367.6	359.4
77.5°	280.9	301.3	317.8	309.5	301.3
80°	210.7	231.1	260.1	248.0	248.0
82.5°	144.4	169.5	194.2	186.0	181.6
85°	82.8	107.5	132.2	124.0	115.7
87.5°	32.9	53.8	57.7	57.7	53.8
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)