

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: P1050804

Luminaire Tested: 24PTR-100-PLG-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050804
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2409-224-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-100-PLG-L840-UNV-STD-W
Description: 10000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

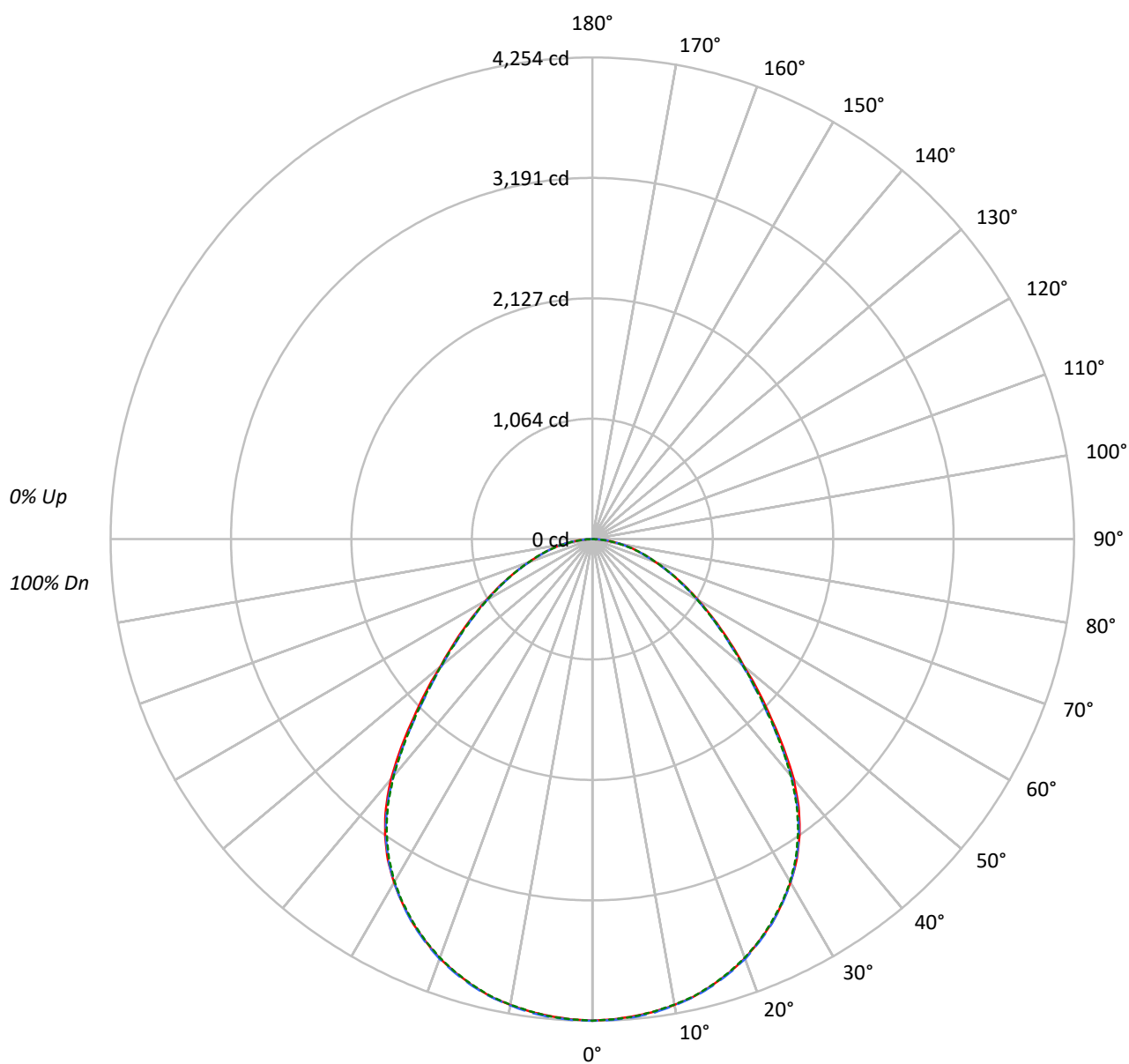
Lumens per Lamp: N/A
Luminaire Lumens: 9584.4 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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: P1050804

CATALOG NUMBER: 24PTR-100-PLG-L840-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1050804

CATALOG NUMBER: 24PTR-100-PLG-L840-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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74		
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	69	66	64		
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56		
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49		
6	74	61	53	47	72	60	52	47	58	51	46	57	51	46	55	50	45	43		
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39		
8	64	51	43	38	62	51	43	38	49	42	37	48	42	37	47	41	37	35		
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32		
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5723	5723	5723
5°	5712	5725	5716
10°	5708	5712	5704
15°	5685	5694	5681
20°	5641	5649	5632
25°	5562	5566	5548
30°	5441	5441	5427
35°	5241	5226	5202
40°	4857	4804	4788
45°	4245	4176	4193
50°	3665	3621	3640
55°	3258	3208	3215
60°	2916	2876	2876
65°	2614	2595	2605
70°	2351	2328	2351
75°	2181	2150	2181
80°	2035	2011	1942
85°	1724	1724	1538

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4245 cd/sqm

TEST NUMBER: P1050804

CATALOG NUMBER: 24PTR-100-PLG-L840-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.7	4.2
10°-20°	1152.3	12.0
20°-30°	1724.2	18.0
30°-40°	1975.4	20.6
40°-50°	1708.5	17.8
50°-60°	1236.5	12.9
60°-70°	814.4	8.5
70°-80°	443.3	4.6
80°-90°	127.1	1.3
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°	3279.2	34.2
0°-40°	5254.6	54.8
0°-60°	8199.6	85.6
0°-90°	9584.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9584.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4254	4254	4254	4254	4254	
5°	4229	4238	4238	4238	4232	402
15°	4082	4084	4088	4094	4078	1151
25°	3746	3746	3749	3752	3737	1723
35°	3191	3188	3182	3179	3167	1982
45°	2231	2225	2195	2192	2204	1727
55°	1389	1383	1368	1358	1371	1250
65°	821	827	815	809	818	820
75°	420	420	414	414	420	447
85°	112	112	112	115	100	129
90°	0	0	0	0	0	

TEST NUMBER: P1050804

CATALOG NUMBER: 24PTR-100-PLG-L840-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4253.5	4253.5	4253.5	4253.5	4253.5
2.5°	4244.5	4253.5	4250.5	4253.5	4244.5
5°	4229.4	4238.4	4238.4	4238.4	4232.4
7.5°	4208.3	4214.3	4217.3	4220.3	4205.2
10°	4178.1	4184.1	4181.1	4187.1	4175.0
12.5°	4138.8	4138.8	4141.8	4147.9	4135.8
15°	4081.5	4084.5	4087.5	4093.5	4078.4
17.5°	4015.0	4018.1	4021.1	4024.1	4012.0
20°	3939.6	3939.6	3945.6	3948.6	3933.5
22.5°	3846.0	3846.0	3852.0	3861.1	3843.0
25°	3746.4	3746.4	3749.4	3752.4	3737.3
27.5°	3628.6	3628.6	3631.7	3640.7	3622.6
30°	3501.8	3498.8	3501.8	3504.9	3492.8
32.5°	3360.0	3356.9	3353.9	3356.9	3341.8
35°	3190.9	3187.9	3181.9	3178.8	3166.8
37.5°	2994.7	2988.6	2976.6	2976.6	2964.5
40°	2765.3	2750.2	2735.1	2729.0	2726.0
42.5°	2499.6	2487.5	2466.4	2463.4	2463.4
45°	2230.9	2224.9	2194.7	2191.7	2203.7
47.5°	1989.4	1974.3	1947.1	1941.1	1959.2
50°	1750.9	1753.9	1729.8	1720.7	1738.8
52.5°	1563.8	1557.7	1536.6	1530.5	1545.6
55°	1388.7	1382.6	1367.5	1358.5	1370.6
57.5°	1228.7	1225.6	1210.6	1207.5	1213.6
60°	1083.8	1080.7	1068.7	1065.6	1068.7
62.5°	947.9	947.9	935.8	929.8	938.9
65°	821.1	827.2	815.1	809.0	818.1
67.5°	706.4	712.4	700.4	694.3	706.4
70°	597.7	603.8	591.7	585.7	597.7
72.5°	504.1	507.2	498.1	495.1	510.2
75°	419.6	419.6	413.6	413.6	419.6
77.5°	341.1	338.1	335.1	335.1	329.1
80°	262.6	259.6	259.6	259.6	250.6
82.5°	187.2	181.1	184.1	187.2	172.1
85°	111.7	111.7	111.7	114.7	99.6
87.5°	45.3	45.3	42.3	45.3	39.2
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)