

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: P1050573

Luminaire Tested: 24PTR-100-PB1-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050573
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-L840-UNV-STD-W
Description: 10000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

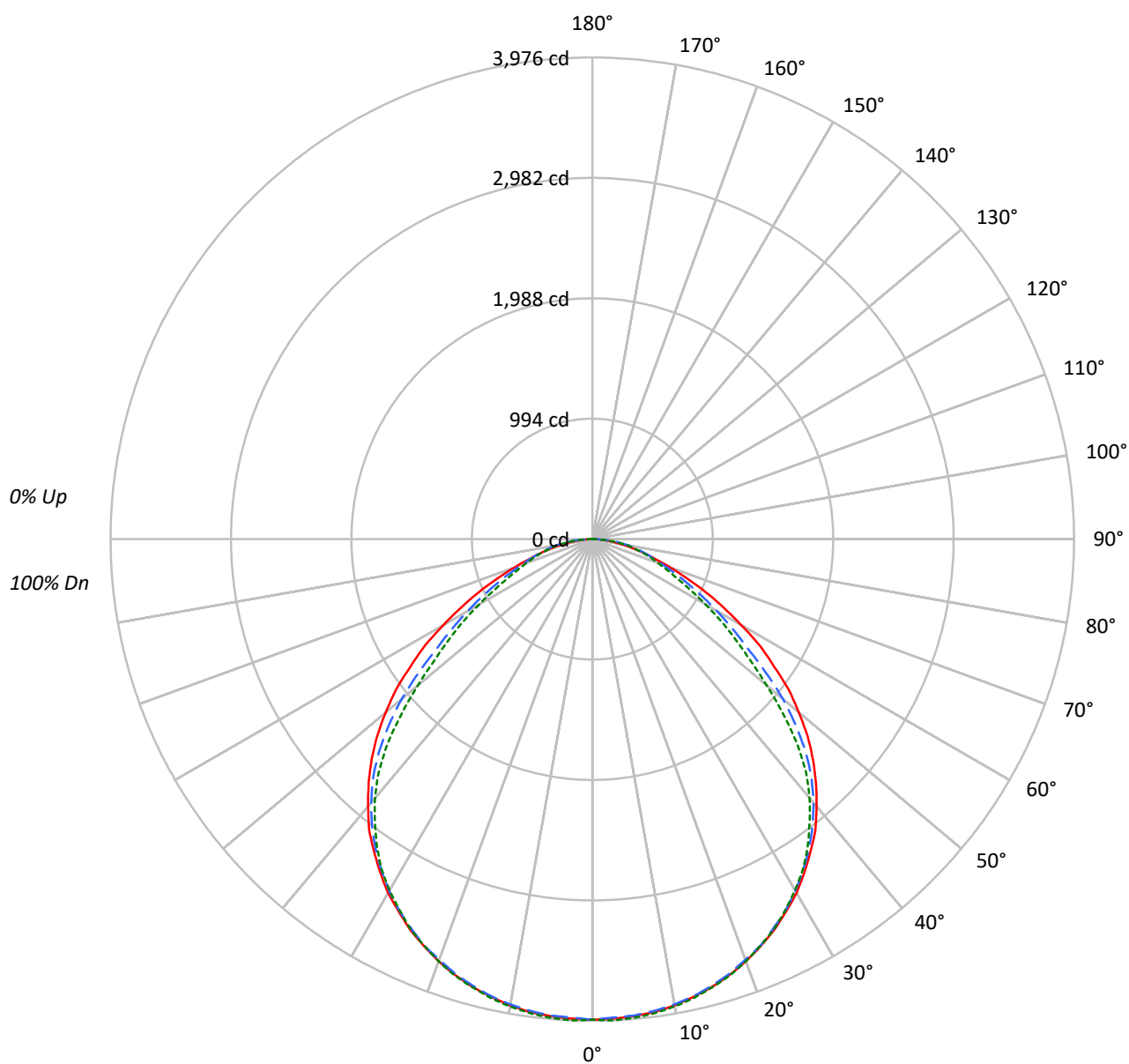
Lumens per Lamp: N/A
Luminaire Lumens: 9891.1 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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: P1050573

CATALOG NUMBER: 24PTR-100-PB1-L840-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1050573

CATALOG NUMBER: 24PTR-100-PB1-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	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°	5337	5337	5337
5°	5337	5331	5358
10°	5340	5326	5353
15°	5328	5315	5335
20°	5309	5289	5309
25°	5281	5258	5273
30°	5238	5208	5200
35°	5161	5121	5089
40°	5056	4988	4901
45°	4902	4744	4549
50°	4658	4299	3932
55°	4292	3652	3387
60°	3821	3191	2901
65°	3278	2766	2471
70°	2706	2438	2265
75°	2282	2333	2207
80°	1929	2381	2270
85°	1510	2411	2112

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4902 cd/sqm

TEST NUMBER: P1050573

CATALOG NUMBER: 24PTR-100-PB1-L840-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.1	3.8
10°-20°	1079.2	10.9
20°-30°	1634.8	16.5
30°-40°	1948.0	19.7
40°-50°	1904.9	19.3
50°-60°	1440.8	14.6
60°-70°	885.2	8.9
70°-80°	471.6	4.8
80°-90°	150.5	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°	3090.1	31.2
0°-40°	5038.1	50.9
0°-60°	8383.8	84.8
0°-90°	9891.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9891.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3967	3967	3967	3967	3967	
5°	3952	3957	3947	3962	3967	376
15°	3825	3830	3816	3830	3830	1080
25°	3557	3552	3542	3547	3552	1638
35°	3142	3137	3118	3103	3098	1965
45°	2576	2562	2493	2410	2391	1982
55°	1830	1737	1557	1468	1444	1639
65°	1030	947	869	800	776	1024
75°	439	444	449	434	425	471
85°	98	127	156	146	137	117
90°	0	0	0	0	0	

TEST NUMBER: P1050573

CATALOG NUMBER: 24PTR-100-PB1-L840-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3966.7	3966.7	3966.7	3966.7	3966.7
2.5°	3962.1	3966.7	3951.8	3971.8	3976.4
5°	3951.8	3956.9	3947.2	3962.1	3966.7
7.5°	3937.5	3937.5	3927.7	3942.1	3947.2
10°	3908.3	3908.3	3898.5	3912.9	3918.0
12.5°	3869.3	3869.3	3864.2	3874.0	3879.1
15°	3825.3	3829.9	3815.6	3829.9	3829.9
17.5°	3771.5	3766.9	3761.8	3771.5	3776.6
20°	3708.0	3708.0	3693.7	3703.4	3708.0
22.5°	3634.7	3634.7	3630.1	3634.7	3630.1
25°	3556.9	3551.8	3542.0	3547.2	3551.8
27.5°	3464.2	3464.2	3454.4	3454.4	3449.3
30°	3371.5	3366.3	3352.0	3342.3	3346.9
32.5°	3259.3	3254.2	3239.8	3230.1	3234.7
35°	3142.0	3137.4	3117.9	3103.1	3098.4
37.5°	3025.2	3010.3	2985.8	2966.3	2946.8
40°	2878.7	2863.9	2839.8	2795.7	2790.6
42.5°	2732.2	2717.9	2678.4	2625.2	2610.3
45°	2576.0	2561.6	2493.0	2410.0	2390.6
47.5°	2410.0	2385.9	2278.4	2175.9	2137.0
50°	2225.1	2181.1	2054.0	1922.4	1878.3
52.5°	2044.3	1966.4	1800.5	1683.2	1639.6
55°	1829.7	1737.0	1556.7	1468.5	1444.0
57.5°	1639.6	1512.6	1366.1	1278.5	1259.0
60°	1419.9	1302.6	1185.8	1107.4	1078.2
62.5°	1219.6	1117.2	1019.8	951.2	917.4
65°	1029.6	946.6	868.7	800.1	776.0
67.5°	844.1	800.1	736.6	683.3	668.5
70°	687.9	663.3	619.8	595.2	575.7
72.5°	546.5	556.3	527.1	517.3	502.5
75°	439.0	444.1	448.7	434.4	424.6
77.5°	331.9	356.0	375.5	365.7	356.0
80°	248.9	273.0	307.3	293.0	293.0
82.5°	170.6	200.3	229.5	219.7	214.6
85°	97.8	127.0	156.2	146.5	136.8
87.5°	38.9	63.5	68.1	68.1	63.5
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)