

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: P1050584

Luminaire Tested: 24PTR-100-PB1-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050584
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-L850-UNV-STD-W
Description: 10000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

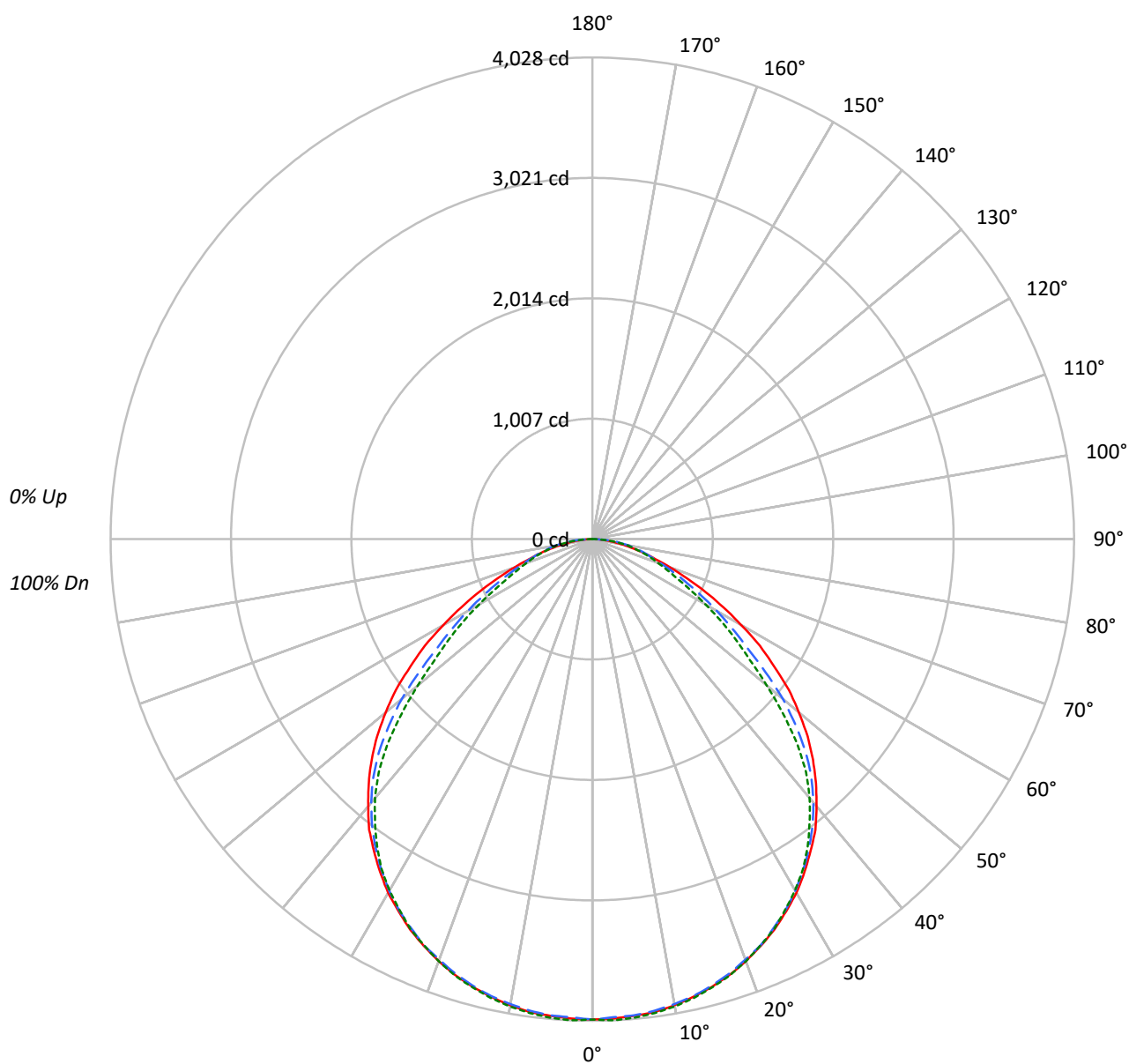
Lumens per Lamp: N/A
Luminaire Lumens: 10018.2 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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: P1050584

CATALOG NUMBER: 24PTR-100-PB1-L850-UNV-STD-W

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	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°	5406	5406	5406
5°	5406	5400	5426
10°	5408	5395	5422
15°	5397	5383	5403
20°	5377	5357	5377
25°	5348	5326	5341
30°	5305	5275	5267
35°	5227	5187	5155
40°	5121	5052	4964
45°	4965	4805	4607
50°	4717	4355	3982
55°	4347	3699	3431
60°	3870	3232	2939
65°	3320	2801	2502
70°	2741	2470	2294
75°	2311	2363	2236
80°	1953	2412	2300
85°	1530	2442	2138

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4965 cd/sqm

TEST NUMBER: P1050584

CATALOG NUMBER: 24PTR-100-PB1-L850-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.9	3.8
10°-20°	1093.1	10.9
20°-30°	1655.8	16.5
30°-40°	1973.0	19.7
40°-50°	1929.4	19.3
50°-60°	1459.3	14.6
60°-70°	896.6	8.9
70°-80°	477.7	4.8
80°-90°	152.4	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°	3129.8	31.2
0°-40°	5102.8	50.9
0°-60°	8491.5	84.8
0°-90°	10018.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10018.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4018	4018	4018	4018	4018	
5°	4003	4008	3998	4013	4018	381
15°	3874	3879	3865	3879	3879	1093
25°	3603	3597	3588	3593	3597	1659
35°	3182	3178	3158	3143	3138	1991
45°	2609	2594	2525	2441	2421	2007
55°	1853	1759	1577	1487	1462	1660
65°	1043	959	880	810	786	1038
75°	445	450	454	440	430	477
85°	99	129	158	148	138	119
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4017.6	4017.6	4017.6	4017.6	4017.6
2.5°	4013.0	4017.6	4002.6	4022.8	4027.5
5°	4002.6	4007.8	3997.9	4013.0	4017.6
7.5°	3988.1	3988.1	3978.2	3992.7	3997.9
10°	3958.5	3958.5	3948.6	3963.2	3968.3
12.5°	3919.1	3919.1	3913.9	3923.7	3928.9
15°	3874.4	3879.1	3864.6	3879.1	3879.1
17.5°	3820.0	3815.3	3810.1	3820.0	3825.2
20°	3755.6	3755.6	3741.1	3751.0	3755.6
22.5°	3681.4	3681.4	3676.8	3681.4	3676.8
25°	3602.6	3597.4	3587.5	3592.7	3597.4
27.5°	3508.7	3508.7	3498.8	3498.8	3493.6
30°	3414.8	3409.6	3395.1	3385.2	3389.9
32.5°	3301.2	3296.0	3281.4	3271.6	3276.3
35°	3182.4	3177.7	3158.0	3142.9	3138.3
37.5°	3064.1	3049.0	3024.1	3004.4	2984.7
40°	2915.7	2900.6	2876.3	2831.6	2826.5
42.5°	2767.3	2752.8	2712.8	2658.9	2643.8
45°	2609.1	2594.5	2525.0	2441.0	2421.3
47.5°	2441.0	2416.6	2307.6	2203.9	2164.5
50°	2253.7	2209.1	2080.4	1947.1	1902.5
52.5°	2070.6	1991.7	1823.6	1704.8	1660.7
55°	1853.2	1759.3	1576.7	1487.4	1462.5
57.5°	1660.7	1532.0	1383.7	1294.9	1275.2
60°	1438.1	1319.3	1201.0	1121.7	1092.1
62.5°	1235.3	1131.5	1032.9	963.4	929.2
65°	1042.8	958.8	879.9	810.4	786.0
67.5°	855.0	810.4	746.0	692.1	677.0
70°	696.8	671.9	627.8	602.9	583.1
72.5°	553.6	563.4	533.9	524.0	508.9
75°	444.6	449.8	454.5	439.9	430.1
77.5°	336.2	360.6	380.3	370.4	360.6
80°	252.1	276.5	311.3	296.8	296.8
82.5°	172.8	202.9	232.4	222.6	217.4
85°	99.1	128.7	158.2	148.4	138.5
87.5°	39.4	64.3	69.0	69.0	64.3
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)