

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: P1050969

Luminaire Tested: 24PTR-100-PR1-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050969
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737735)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-100-PR1-L850-UNV-STD-W
Description: 10000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND RIPPLE LENS

Light Source:
Ballast/Driver: -

Summary

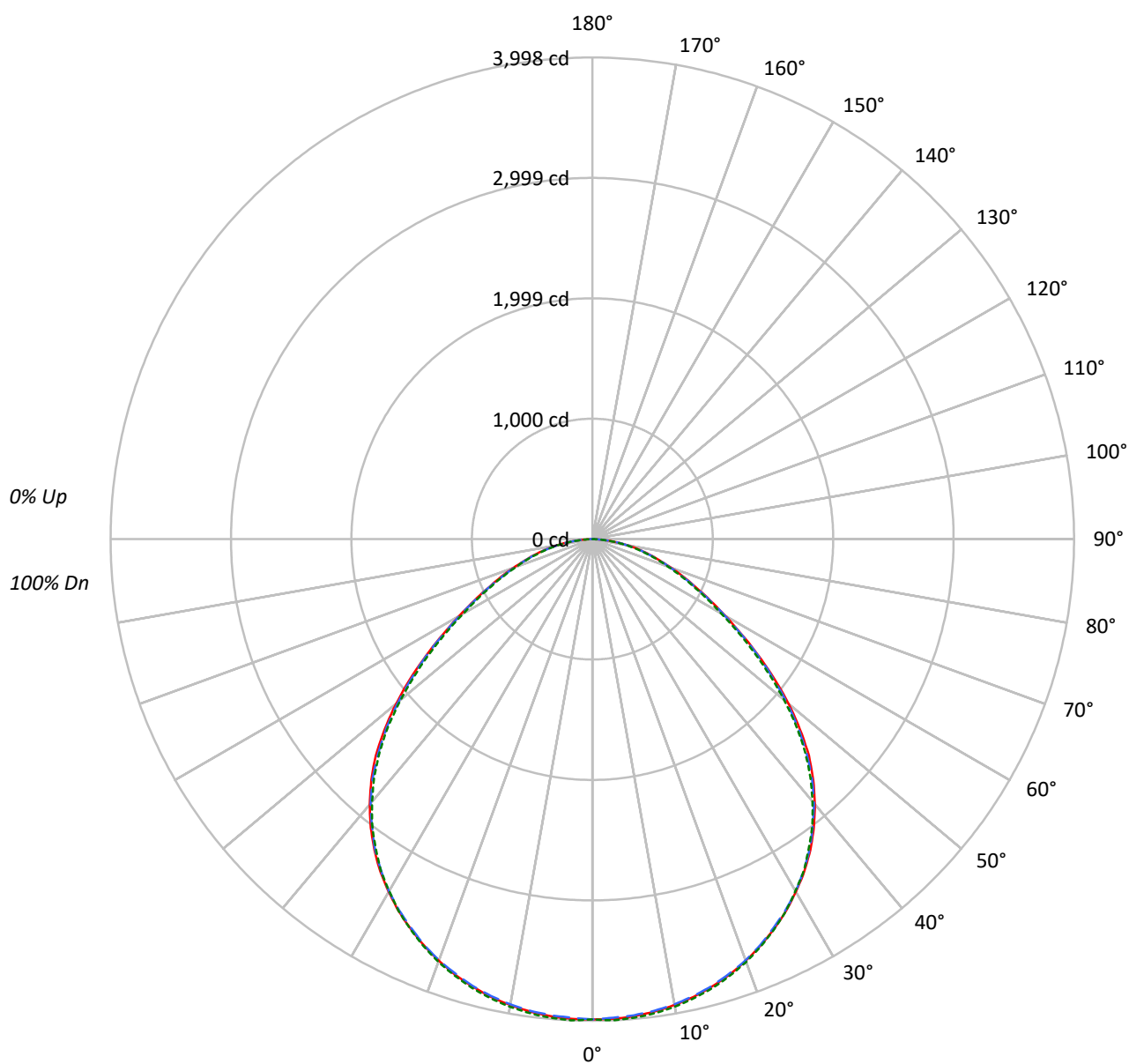
Lumens per Lamp: N/A
Luminaire Lumens: 10083.2 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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: P1050969

CATALOG NUMBER: 24PTR-100-PR1-L850-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1050969

CATALOG NUMBER: 24PTR-100-PR1-L850-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	92	90	91	89	88	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62		
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54		
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	47		
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41		
7	67	54	45	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37		
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33		
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30		
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5364	5364	5364
5°	5370	5358	5387
10°	5365	5356	5385
15°	5355	5347	5372
20°	5333	5326	5347
25°	5298	5285	5304
30°	5251	5244	5238
35°	5178	5166	5145
40°	5048	5028	4992
45°	4837	4783	4748
50°	4451	4401	4346
55°	3939	3922	3845
60°	3423	3411	3318
65°	3017	2999	2939
70°	2737	2698	2643
75°	2534	2475	2429
80°	2313	2281	2204
85°	1828	1811	1740

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4837 cd/sqm

TEST NUMBER: P1050969

CATALOG NUMBER: 24PTR-100-PR1-L850-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.2	3.8
10°-20°	1085.5	10.8
20°-30°	1644.5	16.3
30°-40°	1963.2	19.5
40°-50°	1930.7	19.1
50°-60°	1492.2	14.8
60°-70°	940.9	9.3
70°-80°	509.0	5.0
80°-90°	139.0	1.4
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°	3108.2	30.8
0°-40°	5071.4	50.3
0°-60°	8494.3	84.2
0°-90°	10083.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10083.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3987	3987	3987	3987	3987	
5°	3976	3977	3967	3984	3989	378
15°	3844	3845	3838	3851	3857	1085
25°	3568	3571	3560	3571	3573	1645
35°	3153	3154	3145	3141	3132	1968
45°	2542	2532	2514	2494	2495	1947
55°	1679	1693	1672	1645	1639	1507
65°	948	949	942	926	923	953
75°	488	482	476	479	467	518
85°	118	120	117	118	113	141
90°	0	0	0	0	0	

TEST NUMBER: P1050969

CATALOG NUMBER: 24PTR-100-PR1-L850-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3987.0	3987.0	3987.0	3987.0	3987.0
2.5°	3985.5	3987.0	3975.6	3994.3	3998.5
5°	3975.6	3977.2	3966.8	3983.9	3988.6
7.5°	3955.4	3958.5	3948.6	3965.7	3969.9
10°	3926.8	3929.9	3920.1	3937.2	3941.3
12.5°	3891.5	3892.5	3884.2	3899.8	3904.0
15°	3844.2	3845.3	3838.5	3851.0	3856.7
17.5°	3789.7	3791.3	3781.4	3797.0	3799.6
20°	3724.3	3725.3	3719.6	3732.6	3734.2
22.5°	3651.1	3654.2	3645.4	3656.8	3658.4
25°	3568.5	3571.1	3559.7	3571.1	3572.7
27.5°	3481.3	3482.4	3472.5	3481.3	3479.8
30°	3379.6	3388.4	3375.4	3372.3	3371.2
32.5°	3274.2	3275.2	3262.7	3259.6	3265.3
35°	3152.7	3153.7	3145.4	3141.2	3132.4
37.5°	3019.7	3019.7	3003.6	3001.0	2999.5
40°	2873.8	2872.3	2862.4	2852.6	2842.2
42.5°	2715.0	2718.1	2697.8	2680.7	2678.1
45°	2542.1	2532.2	2513.5	2493.8	2495.3
47.5°	2338.0	2340.6	2315.2	2299.1	2294.9
50°	2126.2	2126.2	2102.3	2085.2	2076.3
52.5°	1905.0	1906.5	1883.7	1860.9	1856.2
55°	1679.1	1693.2	1671.9	1644.9	1639.2
57.5°	1467.8	1479.2	1459.0	1430.4	1428.9
60°	1272.1	1273.1	1267.4	1240.4	1233.1
62.5°	1104.9	1097.6	1094.5	1080.5	1071.7
65°	947.6	949.1	941.9	925.8	923.2
67.5°	820.4	818.8	805.8	796.0	790.2
70°	695.7	691.6	685.9	677.6	671.9
72.5°	584.6	584.6	580.0	577.4	567.5
75°	487.5	481.8	476.1	478.7	467.3
77.5°	394.6	388.9	384.2	378.5	375.9
80°	298.5	292.8	294.4	285.6	284.5
82.5°	207.2	207.2	204.6	197.3	198.9
85°	118.4	119.9	117.3	118.4	112.7
87.5°	43.1	44.1	47.2	44.1	44.1
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)