

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: P1050892

Luminaire Tested: 24PTR-100-PP3-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050892
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737727)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-100-PP3-L850-UNV-STD-W
Description: 10000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND PRISM LENS

Light Source:
Ballast/Driver: -

Summary

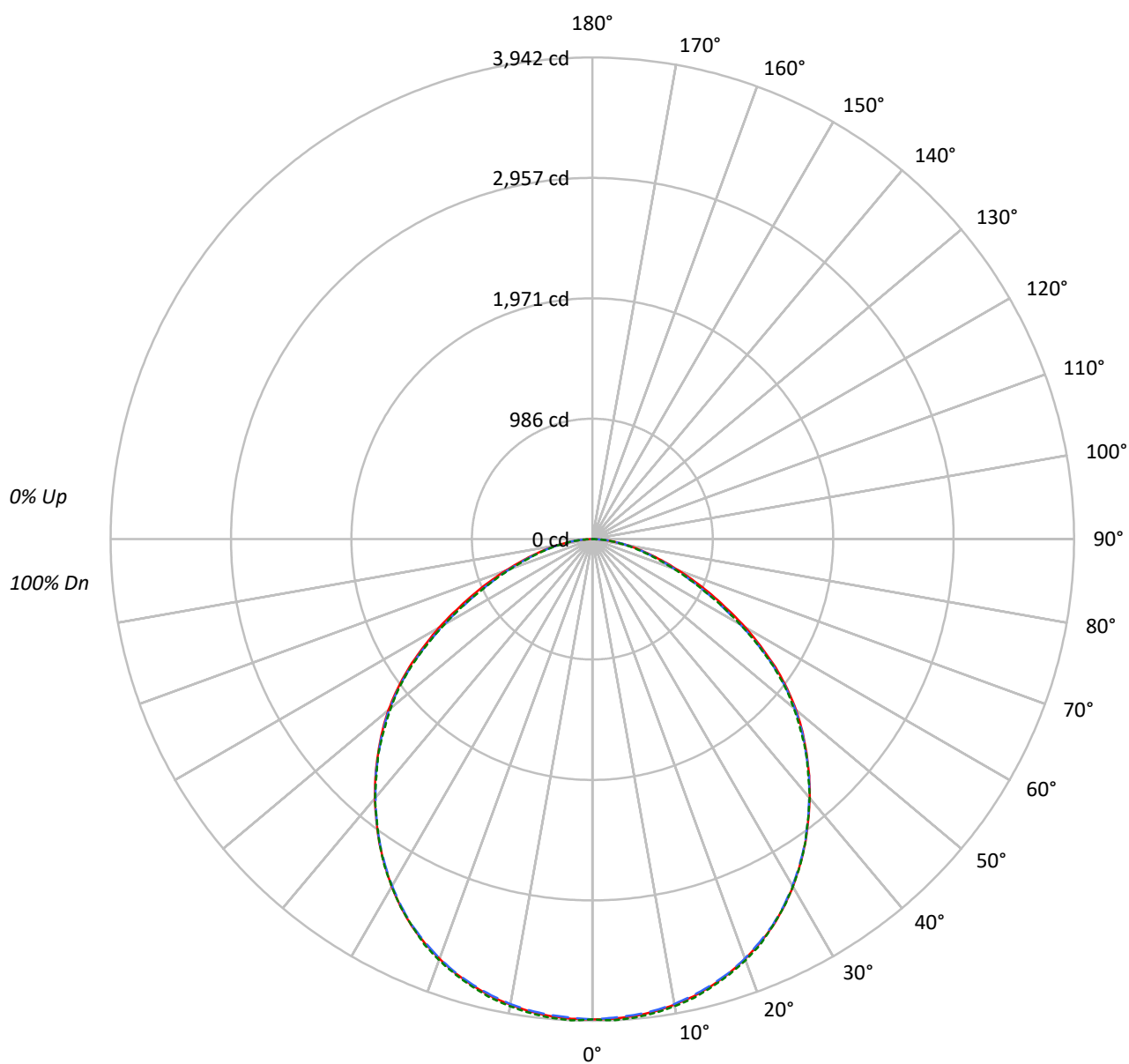
Lumens per Lamp: N/A
Luminaire Lumens: 10155.9 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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: P1050892

CATALOG NUMBER: 24PTR-100-PP3-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	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	61		
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53		
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	52	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	42	40		
7	66	53	45	39	65	52	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32		
9	58	45	37	31	57	44	36	31	43	36	31	42	35	31	41	35	31	29		
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5289	5289	5289
5°	5294	5282	5310
10°	5286	5278	5304
15°	5269	5259	5282
20°	5234	5230	5252
25°	5187	5179	5185
30°	5100	5090	5100
35°	4989	4982	4987
40°	4862	4846	4859
45°	4715	4701	4707
50°	4558	4536	4504
55°	4290	4240	4227
60°	3894	3763	3770
65°	3420	3248	3243
70°	2957	2823	2790
75°	2558	2463	2410
80°	2266	2233	2133
85°	1873	1937	1825

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 4732 cd/sqm

TEST NUMBER: P1050892

CATALOG NUMBER: 24PTR-100-PP3-L850-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.8	3.7
10°-20°	1067.9	10.5
20°-30°	1607.8	15.8
30°-40°	1897.6	18.7
40°-50°	1908.4	18.8
50°-60°	1611.1	15.9
60°-70°	1034.7	10.2
70°-80°	514.6	5.1
80°-90°	141.0	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°	3048.4	30.0
0°-40°	4946.0	48.7
0°-60°	8465.6	83.4
0°-90°	10155.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10155.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3931	3931	3931	3931	3931	
5°	3919	3920	3910	3929	3932	372
15°	3782	3783	3775	3792	3792	1067
25°	3494	3495	3488	3495	3493	1608
35°	3037	3039	3033	3036	3036	1898
45°	2478	2487	2471	2474	2474	1912
55°	1829	1827	1808	1800	1802	1627
65°	1074	1059	1020	1010	1019	1071
75°	492	489	474	469	464	532
85°	121	126	126	118	118	143
90°	0	0	0	0	0	

TEST NUMBER: P1050892

CATALOG NUMBER: 24PTR-100-PP3-L850-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3930.7	3930.7	3930.7	3930.7	3930.7
2.5°	3929.1	3930.7	3920.3	3939.0	3942.1
5°	3919.3	3920.3	3910.5	3929.1	3931.7
7.5°	3899.1	3900.6	3891.8	3908.9	3912.0
10°	3869.0	3873.6	3863.3	3879.4	3881.9
12.5°	3832.2	3833.7	3823.4	3842.0	3845.1
15°	3782.4	3783.4	3775.1	3792.3	3792.3
17.5°	3724.9	3726.4	3720.7	3735.2	3733.7
20°	3655.4	3659.5	3652.3	3662.1	3667.8
22.5°	3579.7	3581.3	3572.4	3585.4	3591.1
25°	3494.2	3495.2	3488.5	3495.2	3492.6
27.5°	3394.1	3396.7	3386.9	3394.1	3395.7
30°	3282.6	3289.9	3275.9	3281.6	3282.6
32.5°	3162.9	3167.0	3157.2	3158.7	3166.0
35°	3037.4	3039.0	3033.3	3035.9	3035.9
37.5°	2902.1	2907.8	2899.0	2903.2	2897.5
40°	2767.9	2762.2	2759.0	2762.2	2766.3
42.5°	2626.3	2627.9	2623.7	2620.6	2613.9
45°	2478.1	2486.9	2470.8	2473.9	2473.9
47.5°	2332.9	2333.9	2325.6	2316.8	2311.1
50°	2177.4	2177.4	2167.0	2160.3	2151.5
52.5°	2007.3	2004.7	1993.3	1986.1	1990.2
55°	1829.0	1827.4	1807.7	1800.5	1802.0
57.5°	1633.5	1636.7	1606.6	1599.3	1599.3
60°	1446.9	1432.4	1398.2	1388.3	1400.8
62.5°	1251.0	1233.8	1197.0	1197.0	1206.9
65°	1074.2	1058.6	1020.3	1009.9	1018.7
67.5°	908.8	894.3	859.0	853.3	855.9
70°	751.7	739.3	717.5	704.5	709.2
72.5°	616.4	605.0	590.5	580.6	574.9
75°	492.0	489.4	473.8	469.2	463.5
77.5°	389.3	388.3	375.3	369.6	363.9
80°	292.4	290.8	288.2	279.4	275.3
82.5°	208.4	208.4	206.9	199.6	195.4
85°	121.3	125.5	125.5	118.2	118.2
87.5°	48.7	51.3	48.7	48.7	47.2
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)