

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: P1050738

Luminaire Tested: 24PTR-100-PL1-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737719)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-100-PL1-L850-UNV-STD-W
Description: 10000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

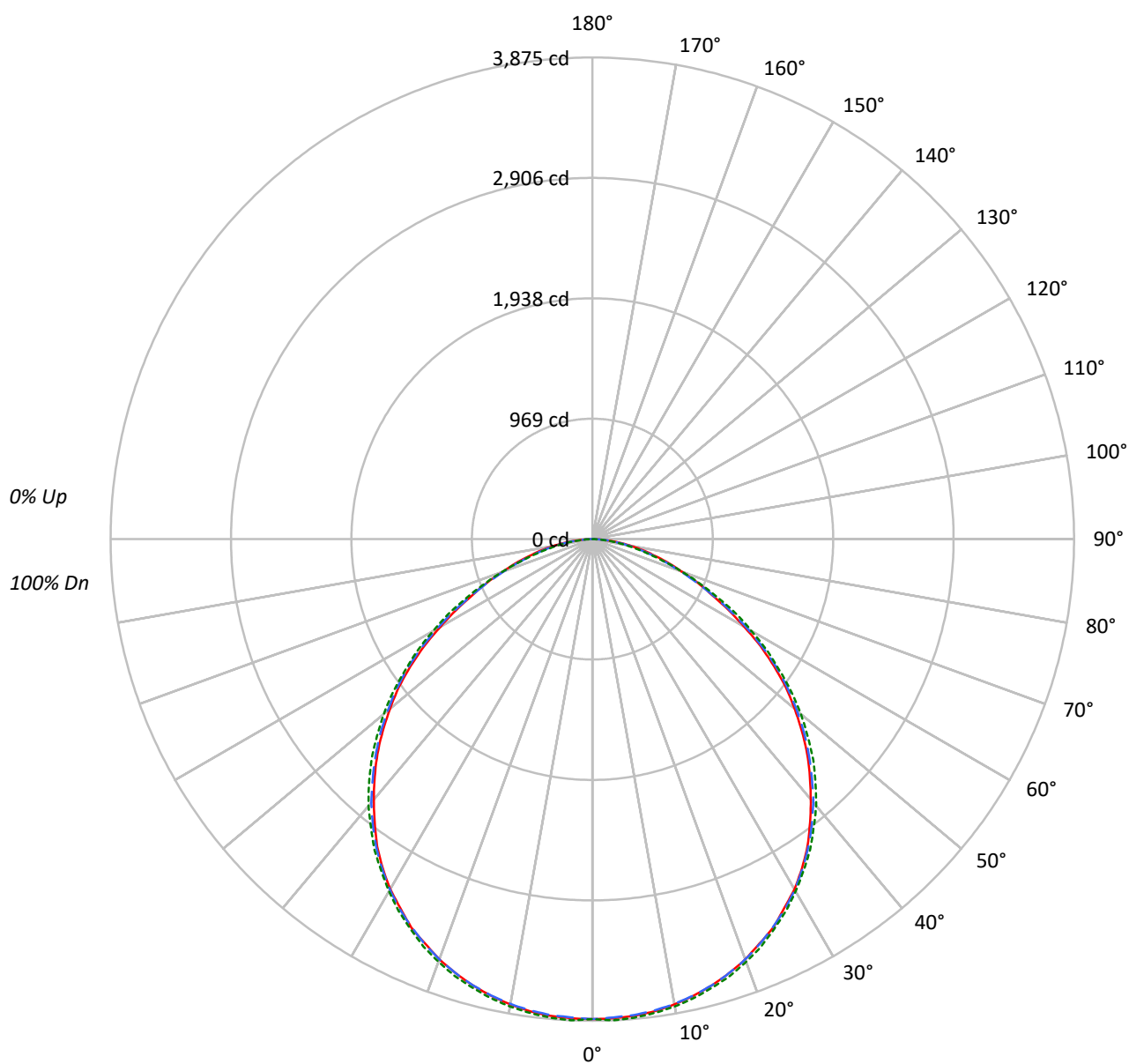
Lumens per Lamp: N/A
Luminaire Lumens: 10179.2 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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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	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	87	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	74	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	63	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	55	55	52
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	48	48	46
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	42	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	37	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	34	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	30	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5196	5196	5196
5°	5200	5190	5219
10°	5194	5188	5217
15°	5178	5176	5202
20°	5152	5152	5181
25°	5117	5110	5138
30°	5052	5059	5084
35°	4956	4975	5015
40°	4802	4858	4920
45°	4652	4691	4781
50°	4447	4495	4585
55°	4189	4256	4306
60°	3800	3881	3977
65°	3375	3411	3549
70°	3017	2955	3029
75°	2721	2565	2514
80°	2473	2296	2039
85°	2095	1902	1638

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4781 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.3	3.6
10°-20°	1050.6	10.3
20°-30°	1589.2	15.6
30°-40°	1894.2	18.6
40°-50°	1904.8	18.7
50°-60°	1616.6	15.9
60°-70°	1076.4	10.6
70°-80°	537.4	5.3
80°-90°	143.8	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°	3006.1	29.5
0°-40°	4900.3	48.1
0°-60°	8421.6	82.7
0°-90°	10179.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10179.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3862	3862	3862	3862	3862	
5°	3850	3851	3843	3860	3864	366
15°	3717	3721	3716	3731	3734	1049
25°	3447	3447	3442	3458	3461	1585
35°	3017	3020	3029	3050	3053	1882
45°	2445	2449	2465	2498	2513	1881
55°	1786	1798	1814	1832	1836	1591
65°	1060	1069	1072	1088	1115	1063
75°	524	516	493	482	484	562
85°	136	133	123	116	106	157
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3861.7	3861.7	3861.7	3861.7	3861.7
2.5°	3858.5	3861.7	3851.3	3870.0	3874.7
5°	3850.2	3851.3	3843.0	3860.1	3864.3
7.5°	3831.5	3833.1	3824.2	3843.0	3845.6
10°	3801.4	3804.5	3797.2	3814.4	3818.5
12.5°	3762.9	3767.0	3759.8	3778.5	3781.6
15°	3717.1	3721.3	3715.6	3731.2	3734.3
17.5°	3661.0	3664.1	3661.0	3675.6	3683.9
20°	3598.1	3598.1	3598.1	3611.1	3618.4
22.5°	3519.6	3526.9	3523.7	3540.9	3548.2
25°	3446.8	3446.8	3442.1	3458.2	3460.8
27.5°	3344.9	3356.3	3355.3	3369.3	3372.5
30°	3251.8	3255.0	3256.5	3266.4	3272.1
32.5°	3139.0	3141.6	3146.3	3160.3	3161.9
35°	3017.4	3020.5	3028.8	3050.1	3053.3
37.5°	2876.0	2891.6	2898.8	2921.7	2924.3
40°	2734.0	2743.9	2765.8	2789.7	2801.1
42.5°	2589.5	2601.0	2614.0	2646.7	2657.1
45°	2445.0	2449.2	2465.3	2498.0	2512.6
47.5°	2284.9	2297.9	2311.9	2340.5	2349.3
50°	2124.7	2138.8	2147.6	2173.1	2190.3
52.5°	1963.1	1976.1	1985.9	2001.5	2018.7
55°	1785.8	1798.3	1814.4	1831.5	1835.7
57.5°	1605.4	1619.4	1629.8	1648.0	1666.7
60°	1412.0	1428.1	1442.1	1459.3	1478.0
62.5°	1232.1	1238.9	1253.4	1282.0	1309.1
65°	1060.0	1068.9	1071.5	1087.6	1114.6
67.5°	917.1	917.1	904.1	909.8	939.9
70°	766.8	761.1	751.2	745.5	769.9
72.5°	645.2	637.9	616.6	606.7	619.7
75°	523.5	516.2	493.4	481.9	483.5
77.5°	420.6	409.1	390.4	370.7	366.5
80°	319.2	314.5	296.3	277.6	263.1
82.5°	226.1	216.3	205.9	194.4	183.0
85°	135.7	133.1	123.2	115.9	106.1
87.5°	55.6	55.6	53.0	49.9	47.3
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)