

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: P1050815

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

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050815
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2409-224-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-100-PLG-L850-UNV-STD-W
Description: 10000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

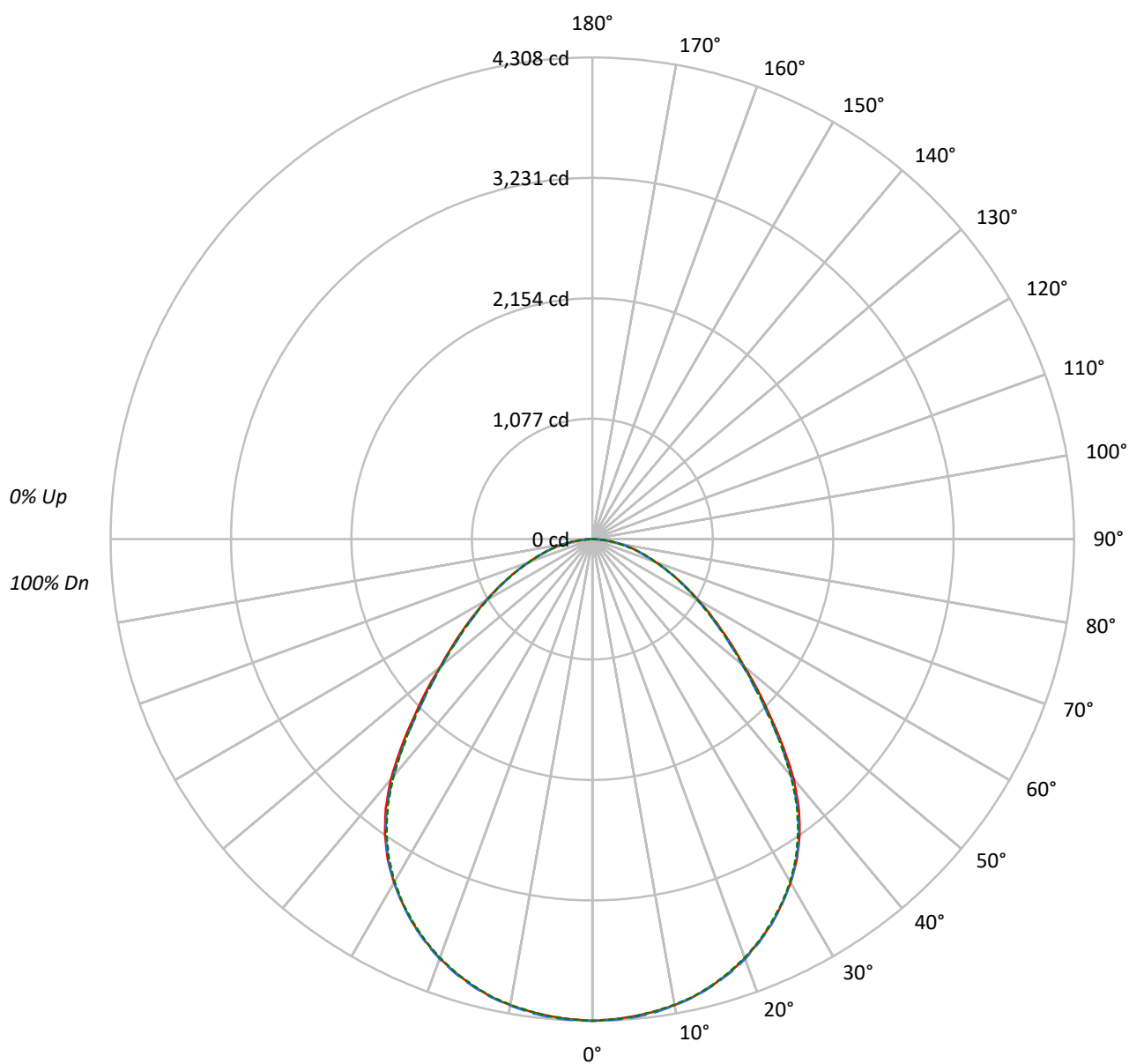
Lumens per Lamp: N/A
Luminaire Lumens: 9707.6 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86	84	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74	72	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	69	66	64	62	64
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56	54	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49	47	49
6	74	61	53	47	72	60	52	47	58	51	46	57	51	46	55	50	45	43	41	43
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39	37	39
8	64	51	43	38	62	51	43	38	49	42	37	48	42	37	47	41	37	35	33	35
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32	30	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29	27	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5797	5797	5797
5°	5786	5798	5790
10°	5782	5786	5777
15°	5758	5767	5754
20°	5713	5722	5705
25°	5633	5638	5620
30°	5510	5510	5496
35°	5309	5293	5268
40°	4919	4866	4849
45°	4300	4230	4247
50°	3712	3667	3687
55°	3299	3249	3256
60°	2954	2913	2913
65°	2648	2628	2638
70°	2382	2358	2382
75°	2209	2178	2209
80°	2061	2038	1967
85°	1746	1746	1558

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4300 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.9	4.2
10°-20°	1167.1	12.0
20°-30°	1746.3	18.0
30°-40°	2000.8	20.6
40°-50°	1730.4	17.8
50°-60°	1252.4	12.9
60°-70°	824.9	8.5
70°-80°	449.0	4.6
80°-90°	128.7	1.3
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°	3321.3	34.2
0°-40°	5322.1	54.8
0°-60°	8305.0	85.6
0°-90°	9707.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9707.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4308	4308	4308	4308	4308	
5°	4284	4293	4293	4293	4287	407
15°	4134	4137	4140	4146	4131	1166
25°	3794	3794	3798	3801	3785	1745
35°	3232	3229	3223	3220	3207	2008
45°	2260	2254	2223	2220	2232	1750
55°	1406	1400	1385	1376	1388	1266
65°	832	838	826	819	829	830
75°	425	425	419	419	425	453
85°	113	113	113	116	101	131
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4308.2	4308.2	4308.2	4308.2	4308.2
2.5°	4299.0	4308.2	4305.1	4308.2	4299.0
5°	4283.7	4292.9	4292.9	4292.9	4286.8
7.5°	4262.3	4268.4	4271.5	4274.5	4259.3
10°	4231.7	4237.9	4234.8	4240.9	4228.7
12.5°	4192.0	4192.0	4195.1	4201.2	4188.9
15°	4133.9	4137.0	4140.0	4146.1	4130.8
17.5°	4066.6	4069.7	4072.7	4075.8	4063.6
20°	3990.2	3990.2	3996.3	3999.4	3984.1
22.5°	3895.4	3895.4	3901.5	3910.7	3892.3
25°	3794.5	3794.5	3797.6	3800.6	3785.3
27.5°	3675.3	3675.3	3678.3	3687.5	3669.1
30°	3546.8	3543.8	3546.8	3549.9	3537.7
32.5°	3403.1	3400.1	3397.0	3400.1	3384.8
35°	3231.9	3228.8	3222.7	3219.7	3207.4
37.5°	3033.2	3027.0	3014.8	3014.8	3002.6
40°	2800.8	2785.5	2770.2	2764.1	2761.0
42.5°	2531.7	2519.5	2498.1	2495.0	2495.0
45°	2259.6	2253.5	2222.9	2219.8	2232.1
47.5°	2015.0	1999.7	1972.2	1966.0	1984.4
50°	1773.4	1776.5	1752.0	1742.8	1761.2
52.5°	1583.8	1577.7	1556.3	1550.2	1565.5
55°	1406.5	1400.4	1385.1	1375.9	1388.2
57.5°	1244.5	1241.4	1226.1	1223.0	1229.2
60°	1097.7	1094.6	1082.4	1079.3	1082.4
62.5°	960.1	960.1	947.9	941.7	950.9
65°	831.7	837.8	825.6	819.4	828.6
67.5°	715.5	721.6	709.4	703.3	715.5
70°	605.4	611.5	599.3	593.2	605.4
72.5°	510.6	513.7	504.5	501.4	516.7
75°	425.0	425.0	418.9	418.9	425.0
77.5°	345.5	342.5	339.4	339.4	333.3
80°	266.0	263.0	263.0	263.0	253.8
82.5°	189.6	183.5	186.5	189.6	174.3
85°	113.1	113.1	113.1	116.2	100.9
87.5°	45.9	45.9	42.8	45.9	39.7
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)