

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: P1050782

Luminaire Tested: 24PTR-100-PLG-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050782
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-L830-UNV-STD-W
Description: 10000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

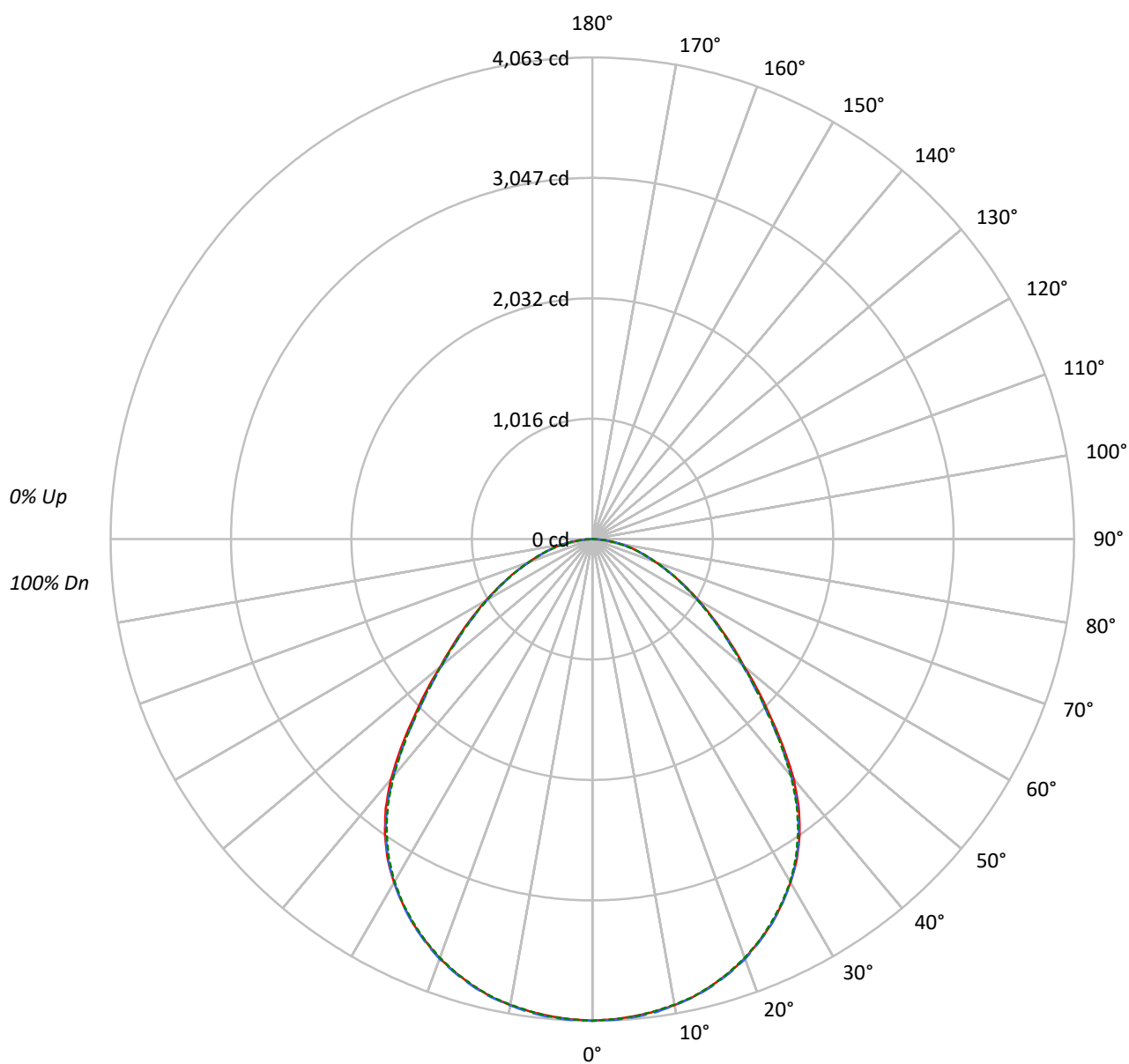
Lumens per Lamp: N/A
Luminaire Lumens: 9154.9 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	5467	5467	5467
5°	5456	5468	5460
10°	5452	5456	5448
15°	5430	5439	5427
20°	5388	5396	5380
25°	5313	5317	5300
30°	5197	5197	5183
35°	5006	4992	4968
40°	4639	4589	4573
45°	4055	3989	4005
50°	3501	3459	3477
55°	3111	3064	3071
60°	2786	2747	2747
65°	2497	2479	2488
70°	2246	2223	2246
75°	2084	2053	2084
80°	1944	1922	1854
85°	1647	1647	1470

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4055 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.7	4.2
10°-20°	1100.7	12.0
20°-30°	1646.9	18.0
30°-40°	1886.9	20.6
40°-50°	1631.9	17.8
50°-60°	1181.1	12.9
60°-70°	777.9	8.5
70°-80°	423.5	4.6
80°-90°	121.4	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°	3132.2	34.2
0°-40°	5019.1	54.8
0°-60°	7832.1	85.6
0°-90°	9154.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9154.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4063	4063	4063	4063	4063	
5°	4040	4048	4048	4048	4043	384
15°	3898	3901	3904	3910	3896	1100
25°	3578	3578	3581	3584	3570	1646
35°	3048	3045	3039	3036	3025	1893
45°	2131	2125	2096	2093	2105	1650
55°	1326	1321	1306	1298	1309	1194
65°	784	790	779	773	781	783
75°	401	401	395	395	401	427
85°	107	107	107	110	95	124
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4062.9	4062.9	4062.9	4062.9	4062.9
2.5°	4054.3	4062.9	4060.0	4062.9	4054.3
5°	4039.8	4048.5	4048.5	4048.5	4042.7
7.5°	4019.7	4025.4	4028.3	4031.2	4016.8
10°	3990.8	3996.6	3993.7	3999.5	3987.9
12.5°	3953.3	3953.3	3956.2	3962.0	3950.4
15°	3898.5	3901.4	3904.3	3910.1	3895.7
17.5°	3835.1	3838.0	3840.9	3843.8	3832.2
20°	3763.0	3763.0	3768.8	3771.7	3757.3
22.5°	3673.6	3673.6	3679.4	3688.0	3670.7
25°	3578.5	3578.5	3581.4	3584.2	3569.8
27.5°	3466.0	3466.0	3468.9	3477.5	3460.2
30°	3344.9	3342.0	3344.9	3347.8	3336.3
32.5°	3209.4	3206.5	3203.6	3206.5	3192.1
35°	3047.9	3045.0	3039.2	3036.4	3024.8
37.5°	2860.5	2854.7	2843.2	2843.2	2831.6
40°	2641.3	2626.9	2612.5	2606.7	2603.8
42.5°	2387.6	2376.0	2355.9	2353.0	2353.0
45°	2130.9	2125.2	2096.3	2093.4	2105.0
47.5°	1900.3	1885.8	1859.9	1854.1	1871.4
50°	1672.5	1675.3	1652.3	1643.6	1660.9
52.5°	1493.7	1487.9	1467.7	1462.0	1476.4
55°	1326.4	1320.7	1306.2	1297.6	1309.1
57.5°	1173.6	1170.7	1156.3	1153.4	1159.2
60°	1035.2	1032.3	1020.8	1017.9	1020.8
62.5°	905.4	905.4	893.9	888.1	896.8
65°	784.3	790.1	778.6	772.8	781.4
67.5°	674.7	680.5	669.0	663.2	674.7
70°	570.9	576.7	565.2	559.4	570.9
72.5°	481.6	484.4	475.8	472.9	487.3
75°	400.8	400.8	395.0	395.0	400.8
77.5°	325.8	323.0	320.1	320.1	314.3
80°	250.9	248.0	248.0	248.0	239.3
82.5°	178.8	173.0	175.9	178.8	164.4
85°	106.7	106.7	106.7	109.6	95.2
87.5°	43.3	43.3	40.4	43.3	37.5
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)