

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: P1050783

Luminaire Tested: 24PTR-90-PLG-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050783
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-90-PLG-L830-UNV-STD-W
Description: 9000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

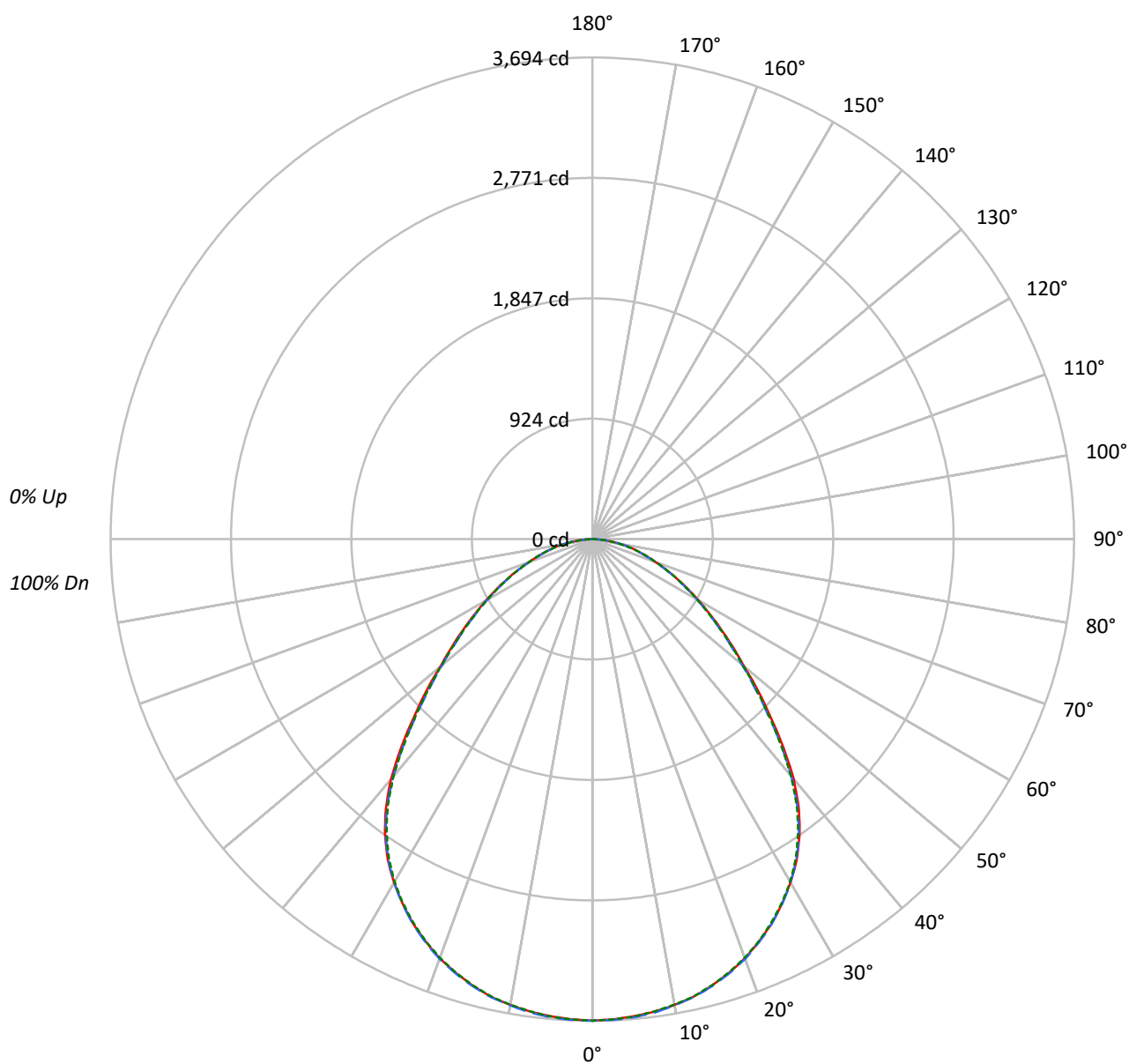
Lumens per Lamp: N/A
Luminaire Lumens: 8323.1 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 76
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°	4970	4970	4970
5°	4961	4971	4964
10°	4957	4961	4953
15°	4937	4944	4933
20°	4898	4906	4891
25°	4830	4834	4818
30°	4725	4725	4712
35°	4551	4539	4517
40°	4218	4172	4158
45°	3686	3627	3641
50°	3183	3144	3161
55°	2829	2786	2792
60°	2532	2497	2497
65°	2270	2253	2262
70°	2042	2021	2042
75°	1894	1867	1894
80°	1767	1747	1686
85°	1497	1497	1335

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3686 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.7	4.2
10°-20°	1000.7	12.0
20°-30°	1497.3	18.0
30°-40°	1715.4	20.6
40°-50°	1483.6	17.8
50°-60°	1073.8	12.9
60°-70°	707.3	8.5
70°-80°	385.0	4.6
80°-90°	110.3	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°	2847.6	34.2
0°-40°	4563.1	54.8
0°-60°	7120.5	85.6
0°-90°	8323.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8323.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3694	3694	3694	3694	3694	
5°	3673	3681	3681	3681	3675	349
15°	3544	3547	3550	3555	3542	1000
25°	3253	3253	3256	3259	3246	1496
35°	2771	2768	2763	2760	2750	1721
45°	1937	1932	1906	1903	1914	1500
55°	1206	1201	1188	1180	1190	1085
65°	713	718	708	703	710	712
75°	364	364	359	359	364	388
85°	97	97	97	100	86	112
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3693.7	3693.7	3693.7	3693.7	3693.7
2.5°	3685.9	3693.7	3691.1	3693.7	3685.9
5°	3672.8	3680.6	3680.6	3680.6	3675.4
7.5°	3654.4	3659.7	3662.3	3664.9	3651.8
10°	3628.2	3633.4	3630.8	3636.1	3625.6
12.5°	3594.1	3594.1	3596.7	3602.0	3591.5
15°	3544.3	3546.9	3549.6	3554.8	3541.7
17.5°	3486.6	3489.3	3491.9	3494.5	3484.0
20°	3421.1	3421.1	3426.3	3429.0	3415.9
22.5°	3339.8	3339.8	3345.1	3352.9	3337.2
25°	3253.3	3253.3	3255.9	3258.6	3245.5
27.5°	3151.1	3151.1	3153.7	3161.6	3145.8
30°	3041.0	3038.4	3041.0	3043.6	3033.1
32.5°	2917.8	2915.1	2912.5	2915.1	2902.0
35°	2771.0	2768.3	2763.1	2760.5	2750.0
37.5°	2600.6	2595.3	2584.8	2584.8	2574.3
40°	2401.3	2388.2	2375.1	2369.9	2367.2
42.5°	2170.6	2160.1	2141.8	2139.2	2139.2
45°	1937.3	1932.1	1905.9	1903.2	1913.7
47.5°	1727.6	1714.5	1690.9	1685.6	1701.4
50°	1520.5	1523.1	1502.1	1494.3	1510.0
52.5°	1358.0	1352.7	1334.4	1329.1	1342.2
55°	1205.9	1200.7	1187.6	1179.7	1190.2
57.5°	1067.0	1064.3	1051.2	1048.6	1053.9
60°	941.1	938.5	928.0	925.4	928.0
62.5°	823.2	823.2	812.7	807.4	815.3
65°	713.1	718.3	707.8	702.6	710.4
67.5°	613.4	618.7	608.2	603.0	613.4
70°	519.1	524.3	513.8	508.6	519.1
72.5°	437.8	440.4	432.6	429.9	443.0
75°	364.4	364.4	359.2	359.2	364.4
77.5°	296.2	293.6	291.0	291.0	285.7
80°	228.1	225.5	225.5	225.5	217.6
82.5°	162.5	157.3	159.9	162.5	149.4
85°	97.0	97.0	97.0	99.6	86.5
87.5°	39.3	39.3	36.7	39.3	34.1
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)