

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: P1050628

Luminaire Tested: 24PTR-100-PC3-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050628
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737711)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-100-PC3-L830-UNV-STD-W
Description: 10000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND PARAMID LENS

Light Source:
Ballast/Driver: -

Summary

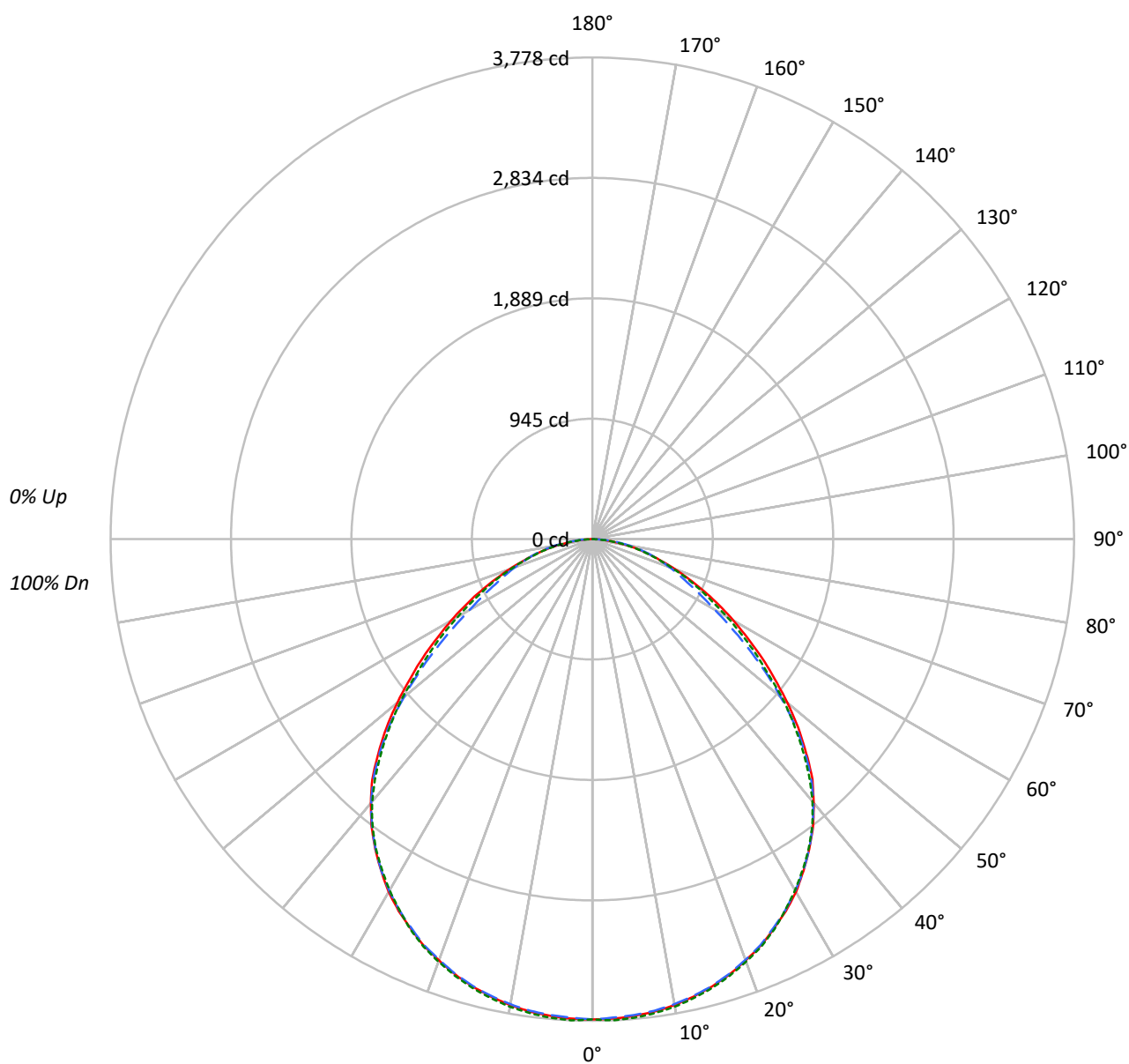
Lumens per Lamp: N/A
Luminaire Lumens: 9498.3 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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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	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72		
3	92	82	74	68	90	80	73	68	77	71	66	75	70	65	72	68	64	62		
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54		
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	47		
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41		
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37		
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33		
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30		
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5069	5069	5069
5°	5071	5061	5090
10°	5070	5061	5088
15°	5058	5053	5075
20°	5035	5028	5050
25°	5001	4993	5013
30°	4964	4947	4939
35°	4874	4869	4860
40°	4745	4738	4717
45°	4513	4479	4434
50°	4177	4037	4082
55°	3812	3503	3660
60°	3437	2988	3278
65°	3072	2673	2947
70°	2725	2529	2650
75°	2410	2451	2362
80°	2079	2341	2067
85°	1558	1853	1558

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 4523 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.3	3.8
10°-20°	1025.7	10.8
20°-30°	1552.9	16.3
30°-40°	1851.4	19.5
40°-50°	1809.0	19.0
50°-60°	1383.3	14.6
60°-70°	888.1	9.4
70°-80°	494.1	5.2
80°-90°	136.5	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°	2935.9	30.9
0°-40°	4787.3	50.4
0°-60°	7979.6	84.0
0°-90°	9498.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9498.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3768	3768	3768	3768	3768	
5°	3754	3757	3747	3765	3769	357
15°	3631	3634	3627	3640	3644	1025
25°	3369	3373	3364	3374	3377	1554
35°	2968	2970	2964	2963	2959	1854
45°	2372	2377	2354	2349	2330	1825
55°	1625	1569	1493	1512	1560	1453
65°	965	891	840	868	926	962
75°	464	468	472	465	454	495
85°	101	118	120	116	101	124
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3767.5	3767.5	3767.5	3767.5	3767.5
2.5°	3765.0	3766.5	3756.7	3772.8	3778.2
5°	3754.2	3756.7	3747.4	3765.0	3768.9
7.5°	3738.1	3740.5	3731.2	3748.9	3750.3
10°	3711.2	3712.6	3704.3	3721.9	3724.4
12.5°	3674.9	3678.8	3669.5	3685.7	3686.7
15°	3631.3	3634.3	3627.4	3639.7	3643.6
17.5°	3580.4	3581.9	3575.0	3588.3	3589.7
20°	3516.8	3516.8	3511.4	3526.6	3526.6
22.5°	3452.2	3448.2	3446.8	3452.2	3460.5
25°	3368.9	3372.8	3363.5	3374.3	3376.8
27.5°	3288.1	3288.1	3279.8	3285.2	3278.3
30°	3195.1	3189.7	3184.3	3185.3	3179.0
32.5°	3083.0	3083.0	3080.6	3080.6	3072.2
35°	2967.5	2969.9	2964.5	2963.0	2959.1
37.5°	2843.1	2847.5	2837.7	2835.3	2832.3
40°	2701.6	2701.6	2697.7	2692.3	2685.4
42.5°	2554.7	2554.7	2537.6	2523.9	2514.6
45°	2371.6	2377.0	2354.0	2348.6	2330.0
47.5°	2189.5	2185.6	2154.7	2150.8	2140.0
50°	1995.6	1972.6	1928.5	1940.3	1950.1
52.5°	1801.7	1773.3	1708.7	1721.9	1738.1
55°	1625.0	1568.7	1493.3	1511.9	1560.3
57.5°	1440.4	1365.0	1289.6	1324.9	1385.1
60°	1277.4	1192.7	1110.4	1148.1	1218.1
62.5°	1121.2	1031.1	965.0	1001.2	1060.5
65°	965.0	890.6	839.7	867.6	925.8
67.5°	822.0	772.1	737.3	750.6	797.6
70°	692.8	661.4	642.8	646.8	673.7
72.5°	569.9	562.1	555.2	555.2	557.7
75°	463.6	467.6	471.5	465.1	454.3
77.5°	365.2	378.5	388.3	374.5	361.3
80°	268.3	289.8	302.1	286.9	266.8
82.5°	183.1	207.6	211.5	202.2	179.2
85°	100.9	118.5	120.0	116.0	100.9
87.5°	37.7	44.6	48.5	44.6	39.2
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)