

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: P1050794

Luminaire Tested: 24PTR-90-PLG-L835-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050794
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-L835-UNV-STD-W
Description: 9000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

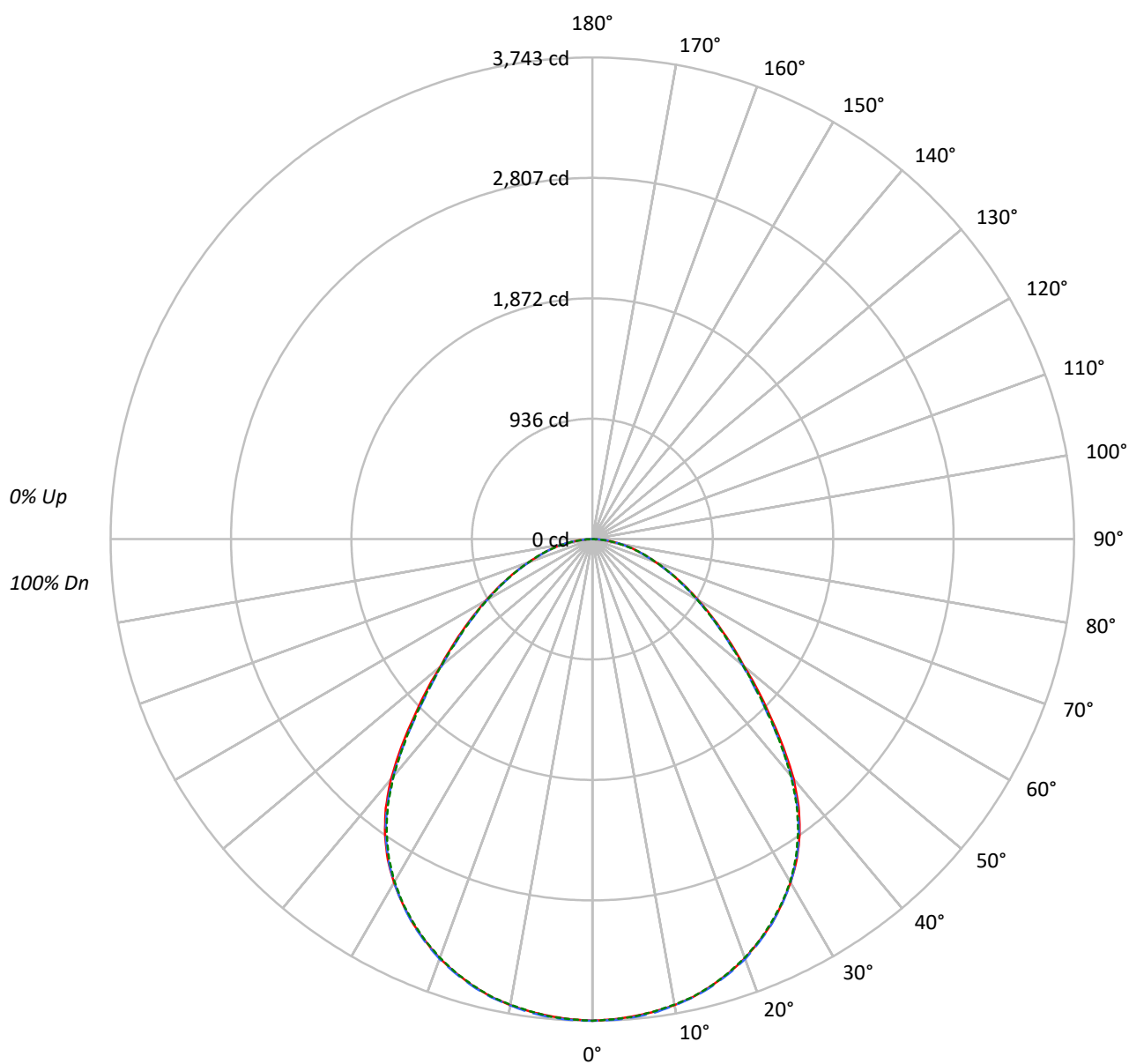
Lumens per Lamp: N/A
Luminaire Lumens: 8434.0 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	100		
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74		
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	69	66	64		
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56		
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49		
6	74	61	53	47	72	60	52	47	58	51	46	57	51	46	55	50	45	43		
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39		
8	64	51	43	38	62	51	43	38	49	42	37	48	42	37	47	41	37	35		
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32		
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5036	5036	5036
5°	5027	5037	5030
10°	5023	5027	5019
15°	5003	5010	4999
20°	4964	4971	4956
25°	4894	4898	4882
30°	4788	4788	4775
35°	4612	4599	4577
40°	4274	4227	4213
45°	3735	3675	3690
50°	3225	3186	3203
55°	2867	2823	2829
60°	2566	2531	2531
65°	2301	2283	2292
70°	2069	2048	2069
75°	1919	1892	1919
80°	1791	1771	1709
85°	1518	1518	1354

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3735 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.4	4.2
10°-20°	1014.0	12.0
20°-30°	1517.2	18.0
30°-40°	1738.3	20.6
40°-50°	1503.4	17.8
50°-60°	1088.1	12.9
60°-70°	716.7	8.5
70°-80°	390.1	4.6
80°-90°	111.8	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°	2885.6	34.2
0°-40°	4623.9	54.8
0°-60°	7215.4	85.6
0°-90°	8434.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8434.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3743	3743	3743	3743	3743	
5°	3722	3730	3730	3730	3724	354
15°	3592	3594	3597	3602	3589	1013
25°	3297	3297	3299	3302	3289	1516
35°	2808	2805	2800	2797	2787	1744
45°	1963	1958	1931	1929	1939	1520
55°	1222	1217	1203	1195	1206	1100
65°	723	728	717	712	720	721
75°	369	369	364	364	369	393
85°	98	98	98	101	88	114
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3743.0	3743.0	3743.0	3743.0	3743.0
2.5°	3735.0	3743.0	3740.3	3743.0	3735.0
5°	3721.7	3729.7	3729.7	3729.7	3724.4
7.5°	3703.1	3708.4	3711.1	3713.7	3700.5
10°	3676.6	3681.9	3679.2	3684.5	3673.9
12.5°	3642.0	3642.0	3644.7	3650.0	3639.4
15°	3591.5	3594.2	3596.9	3602.2	3588.9
17.5°	3533.1	3535.8	3538.4	3541.1	3530.4
20°	3466.7	3466.7	3472.0	3474.7	3461.4
22.5°	3384.3	3384.3	3389.7	3397.6	3381.7
25°	3296.7	3296.7	3299.3	3302.0	3288.7
27.5°	3193.1	3193.1	3195.7	3203.7	3187.8
30°	3081.5	3078.8	3081.5	3084.2	3073.5
32.5°	2956.6	2954.0	2951.3	2954.0	2940.7
35°	2807.9	2805.2	2799.9	2797.3	2786.6
37.5°	2635.2	2629.9	2619.3	2619.3	2608.7
40°	2433.3	2420.0	2406.8	2401.4	2398.8
42.5°	2199.6	2188.9	2170.3	2167.7	2167.7
45°	1963.1	1957.8	1931.3	1928.6	1939.2
47.5°	1750.6	1737.3	1713.4	1708.1	1724.0
50°	1540.8	1543.4	1522.2	1514.2	1530.1
52.5°	1376.1	1370.7	1352.1	1346.8	1360.1
55°	1222.0	1216.7	1203.4	1195.4	1206.0
57.5°	1081.2	1078.5	1065.2	1062.6	1067.9
60°	953.7	951.0	940.4	937.7	940.4
62.5°	834.1	834.1	823.5	818.2	826.2
65°	722.6	727.9	717.2	711.9	719.9
67.5°	621.6	626.9	616.3	611.0	621.6
70°	526.0	531.3	520.7	515.4	526.0
72.5°	443.6	446.3	438.3	435.7	448.9
75°	369.2	369.2	363.9	363.9	369.2
77.5°	300.2	297.5	294.9	294.9	289.6
80°	231.1	228.5	228.5	228.5	220.5
82.5°	164.7	159.4	162.0	164.7	151.4
85°	98.3	98.3	98.3	100.9	87.7
87.5°	39.8	39.8	37.2	39.8	34.5
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)