

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: P1050706

Luminaire Tested: 24PTR-90-PL1-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050706
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737719)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-90-PL1-L830-UNV-STD-W
Description: 9000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

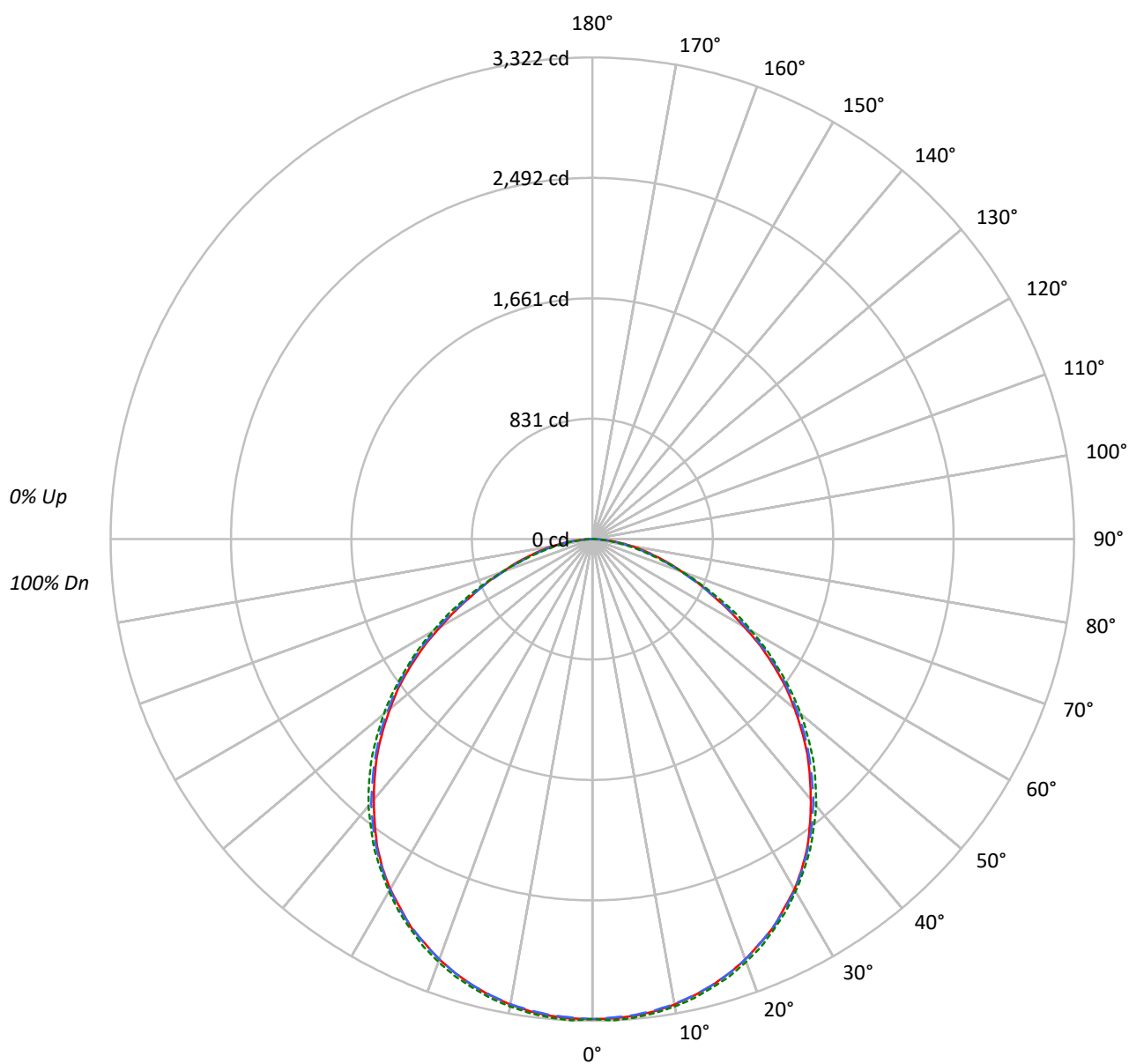
Lumens per Lamp: N/A
Luminaire Lumens: 8727.1 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	87	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	74	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	63	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	55	55	52
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	48	48	46
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	42	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	37	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	34	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	30	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4455	4455	4455
5°	4458	4450	4475
10°	4453	4448	4473
15°	4439	4437	4460
20°	4417	4417	4442
25°	4387	4381	4405
30°	4332	4338	4358
35°	4249	4265	4300
40°	4117	4165	4218
45°	3989	4022	4099
50°	3813	3854	3931
55°	3591	3649	3692
60°	3258	3327	3410
65°	2893	2925	3042
70°	2586	2534	2597
75°	2333	2199	2155
80°	2121	1969	1747
85°	1795	1630	1403

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4099 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.0	3.6
10°-20°	900.7	10.3
20°-30°	1362.5	15.6
30°-40°	1624.0	18.6
40°-50°	1633.0	18.7
50°-60°	1386.0	15.9
60°-70°	922.8	10.6
70°-80°	460.8	5.3
80°-90°	123.3	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°	2577.2	29.5
0°-40°	4201.3	48.1
0°-60°	7220.2	82.7
0°-90°	8727.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8727.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3311	3311	3311	3311	3311	
5°	3301	3302	3295	3310	3313	314
15°	3187	3190	3186	3199	3202	899
25°	2955	2955	2951	2965	2967	1359
35°	2587	2590	2597	2615	2618	1614
45°	2096	2100	2114	2142	2154	1613
55°	1531	1542	1556	1570	1574	1364
65°	909	916	919	932	956	911
75°	449	443	423	413	414	482
85°	116	114	106	99	91	135
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3310.8	3310.8	3310.8	3310.8	3310.8
2.5°	3308.1	3310.8	3301.9	3317.9	3321.9
5°	3301.0	3301.9	3294.7	3309.5	3313.0
7.5°	3284.9	3286.3	3278.7	3294.7	3297.0
10°	3259.1	3261.8	3255.5	3270.2	3273.8
12.5°	3226.1	3229.7	3223.4	3239.5	3242.1
15°	3186.9	3190.4	3185.5	3198.9	3201.6
17.5°	3138.7	3141.4	3138.7	3151.2	3158.4
20°	3084.8	3084.8	3084.8	3096.0	3102.2
22.5°	3017.5	3023.7	3021.1	3035.8	3042.0
25°	2955.1	2955.1	2951.1	2964.9	2967.1
27.5°	2867.7	2877.6	2876.7	2888.7	2891.4
30°	2788.0	2790.6	2792.0	2800.4	2805.3
32.5°	2691.2	2693.5	2697.5	2709.5	2710.9
35°	2586.9	2589.6	2596.7	2615.0	2617.7
37.5°	2465.7	2479.1	2485.3	2504.9	2507.2
40°	2344.0	2352.5	2371.2	2391.7	2401.5
42.5°	2220.1	2229.9	2241.1	2269.1	2278.1
45°	2096.2	2099.8	2113.6	2141.7	2154.2
47.5°	1958.9	1970.1	1982.1	2006.6	2014.2
50°	1821.6	1833.7	1841.3	1863.1	1877.8
52.5°	1683.0	1694.2	1702.6	1716.0	1730.7
55°	1531.0	1541.7	1555.6	1570.3	1573.8
57.5°	1376.4	1388.4	1397.3	1412.9	1429.0
60°	1210.6	1224.4	1236.4	1251.1	1267.2
62.5°	1056.4	1062.1	1074.6	1099.1	1122.3
65°	908.8	916.4	918.6	932.4	955.6
67.5°	786.2	786.2	775.1	780.0	805.9
70°	657.4	652.5	644.1	639.2	660.1
72.5°	553.1	546.9	528.6	520.2	531.3
75°	448.8	442.6	423.0	413.2	414.5
77.5°	360.6	350.8	334.7	317.8	314.2
80°	273.7	269.7	254.1	238.0	225.5
82.5°	193.9	185.4	176.5	166.7	156.9
85°	116.3	114.1	105.6	99.4	90.9
87.5°	47.7	47.7	45.5	42.8	40.6
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)