

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: P1050552

Luminaire Tested: 24PTR-90-PB1-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050552
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737703)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-90-PB1-L830-UNV-STD-W
Description: 9000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

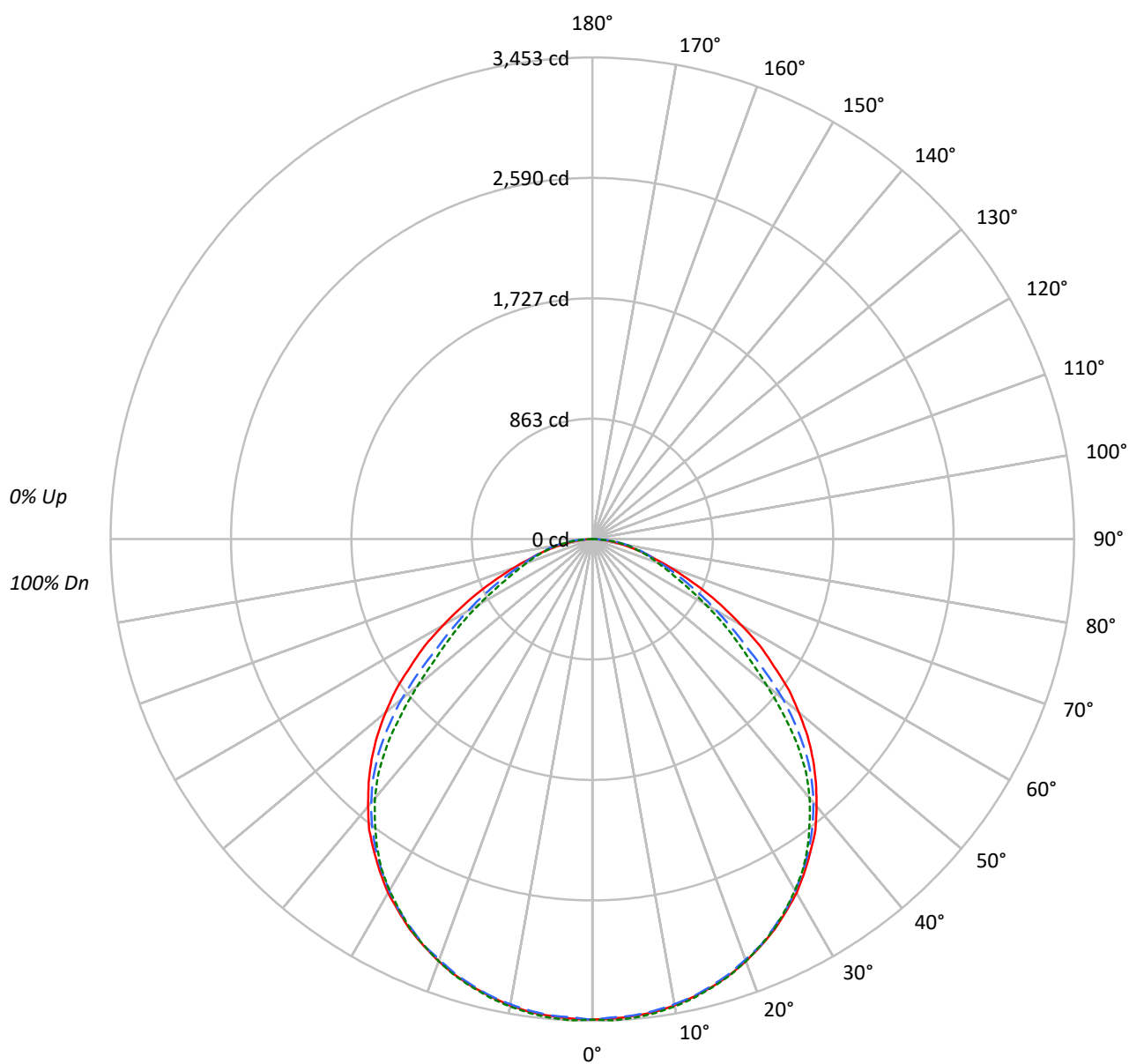
Lumens per Lamp: N/A
Luminaire Lumens: 8589.4 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P1050552

CATALOG NUMBER: 24PTR-90-PB1-L830-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1050552

CATALOG NUMBER: 24PTR-90-PB1-L830-UNV-STD-W

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	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	88	88	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	75	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64	64	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	56	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	49	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	44	44	42
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	39	39	37
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	35	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	32	32	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	29	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4635	4635	4635
5°	4635	4630	4652
10°	4637	4625	4649
15°	4627	4615	4633
20°	4611	4593	4611
25°	4586	4566	4579
30°	4549	4522	4515
35°	4482	4447	4420
40°	4391	4331	4256
45°	4257	4119	3950
50°	4045	3734	3414
55°	3727	3171	2941
60°	3318	2771	2520
65°	2847	2402	2145
70°	2350	2117	1967
75°	1982	2026	1917
80°	1675	2068	1971
85°	1312	2095	1834

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4257 cd/sqm

TEST NUMBER: P1050552

CATALOG NUMBER: 24PTR-90-PB1-L830-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.6	3.8
10°-20°	937.2	10.9
20°-30°	1419.6	16.5
30°-40°	1691.6	19.7
40°-50°	1654.2	19.3
50°-60°	1251.2	14.6
60°-70°	768.7	8.9
70°-80°	409.5	4.8
80°-90°	130.7	1.5
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°	2683.4	31.2
0°-40°	4375.0	50.9
0°-60°	7280.4	84.8
0°-90°	8589.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8589.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3445	3445	3445	3445	3445	
5°	3432	3436	3428	3441	3445	326
15°	3322	3326	3313	3326	3326	938
25°	3089	3084	3076	3080	3084	1423
35°	2728	2724	2708	2695	2691	1707
45°	2237	2224	2165	2093	2076	1721
55°	1589	1508	1352	1275	1254	1423
65°	894	822	754	695	674	890
75°	381	386	390	377	369	409
85°	85	110	136	127	119	102
90°	0	0	0	0	0	

TEST NUMBER: P1050552

CATALOG NUMBER: 24PTR-90-PB1-L830-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3444.6	3444.6	3444.6	3444.6	3444.6
2.5°	3440.6	3444.6	3431.7	3449.1	3453.1
5°	3431.7	3436.2	3427.7	3440.6	3444.6
7.5°	3419.3	3419.3	3410.8	3423.3	3427.7
10°	3393.9	3393.9	3385.5	3397.9	3402.4
12.5°	3360.1	3360.1	3355.7	3364.1	3368.6
15°	3321.9	3325.9	3313.4	3325.9	3325.9
17.5°	3275.2	3271.2	3266.7	3275.2	3279.6
20°	3220.0	3220.0	3207.5	3216.0	3220.0
22.5°	3156.4	3156.4	3152.4	3156.4	3152.4
25°	3088.8	3084.3	3075.9	3080.3	3084.3
27.5°	3008.3	3008.3	2999.8	2999.8	2995.4
30°	2927.8	2923.3	2910.9	2902.4	2906.4
32.5°	2830.3	2825.9	2813.4	2805.0	2809.0
35°	2728.5	2724.5	2707.6	2694.7	2690.7
37.5°	2627.1	2614.2	2592.8	2575.9	2559.0
40°	2499.8	2486.9	2466.0	2427.8	2423.3
42.5°	2372.6	2360.2	2325.9	2279.7	2266.8
45°	2237.0	2224.5	2164.9	2092.8	2075.9
47.5°	2092.8	2071.9	1978.5	1889.6	1855.8
50°	1932.3	1894.0	1783.7	1669.4	1631.1
52.5°	1775.2	1707.6	1563.5	1461.7	1423.8
55°	1588.9	1508.4	1351.8	1275.3	1253.9
57.5°	1423.8	1313.5	1186.3	1110.3	1093.3
60°	1233.0	1131.2	1029.7	961.7	936.3
62.5°	1059.1	970.1	885.6	826.0	796.7
65°	894.1	822.0	754.4	694.8	673.9
67.5°	733.1	694.8	639.6	593.4	580.5
70°	597.4	576.0	538.2	516.9	500.0
72.5°	474.6	483.1	457.7	449.3	436.4
75°	381.2	385.7	389.7	377.2	368.7
77.5°	288.2	309.1	326.0	317.6	309.1
80°	216.2	237.1	266.9	254.4	254.4
82.5°	148.1	173.9	199.3	190.8	186.4
85°	85.0	110.3	135.7	127.2	118.8
87.5°	33.8	55.2	59.2	59.2	55.2
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)