

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: P1050704

Luminaire Tested: 24PTR-80-PL1-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050704
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-80-PL1-L830-UNV-STD-W
Description: 8000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

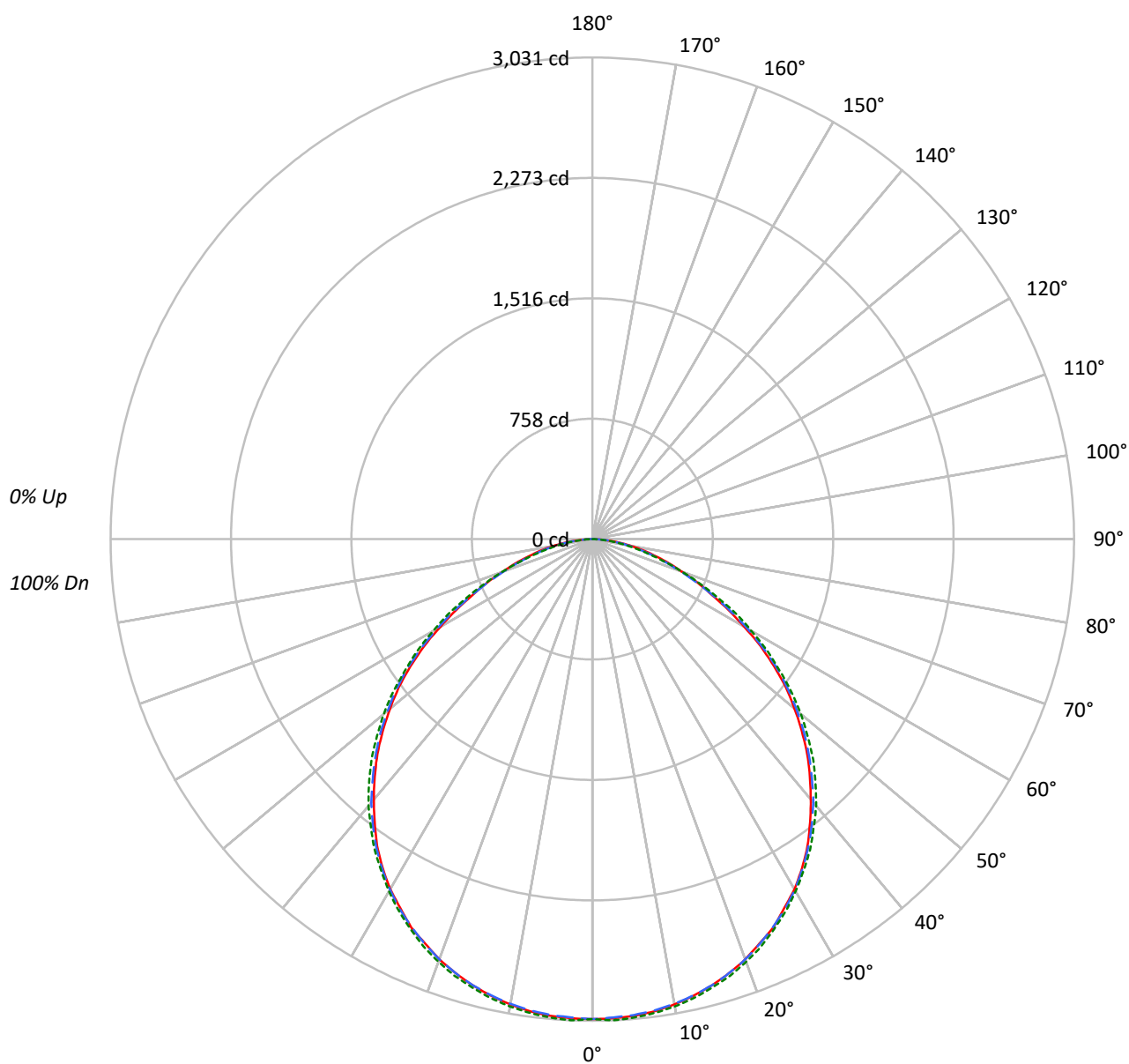
Lumens per Lamp: N/A
Luminaire Lumens: 7961.8 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 68
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°	4064	4064	4064
5°	4067	4060	4082
10°	4062	4058	4081
15°	4050	4048	4069
20°	4030	4030	4052
25°	4002	3997	4019
30°	3952	3957	3976
35°	3877	3891	3923
40°	3756	3800	3848
45°	3639	3669	3739
50°	3479	3516	3586
55°	3277	3329	3368
60°	2972	3035	3111
65°	2640	2668	2776
70°	2360	2312	2369
75°	2129	2006	1966
80°	1935	1796	1595
85°	1638	1488	1281

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3739 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.5	3.6
10°-20°	821.7	10.3
20°-30°	1243.0	15.6
30°-40°	1481.6	18.6
40°-50°	1489.8	18.7
50°-60°	1264.4	15.9
60°-70°	841.9	10.6
70°-80°	420.4	5.3
80°-90°	112.5	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°	2351.2	29.5
0°-40°	3832.8	48.1
0°-60°	6587.1	82.7
0°-90°	7961.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7961.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3020	3020	3020	3020	3020	
5°	3012	3012	3006	3019	3022	286
15°	2907	2911	2906	2918	2921	820
25°	2696	2696	2692	2705	2707	1240
35°	2360	2362	2369	2386	2388	1472
45°	1912	1916	1928	1954	1965	1471
55°	1397	1406	1419	1433	1436	1245
65°	829	836	838	851	872	831
75°	410	404	386	377	378	440
85°	106	104	96	91	83	123
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3020.4	3020.4	3020.4	3020.4	3020.4
2.5°	3018.0	3020.4	3012.3	3027.0	3030.6
5°	3011.5	3012.3	3005.8	3019.2	3022.5
7.5°	2996.9	2998.1	2991.2	3005.8	3007.8
10°	2973.3	2975.7	2970.0	2983.4	2986.7
12.5°	2943.2	2946.4	2940.7	2955.4	2957.8
15°	2907.4	2910.7	2906.2	2918.4	2920.8
17.5°	2863.5	2865.9	2863.5	2874.9	2881.4
20°	2814.3	2814.3	2814.3	2824.5	2830.1
22.5°	2752.9	2758.6	2756.1	2769.6	2775.2
25°	2696.0	2696.0	2692.3	2704.9	2706.9
27.5°	2616.3	2625.2	2624.4	2635.4	2637.8
30°	2543.5	2545.9	2547.1	2554.9	2559.3
32.5°	2455.2	2457.3	2460.9	2471.9	2473.1
35°	2360.1	2362.5	2369.0	2385.7	2388.1
37.5°	2249.5	2261.7	2267.4	2285.3	2287.3
40°	2138.5	2146.2	2163.3	2182.0	2190.9
42.5°	2025.4	2034.4	2044.5	2070.2	2078.3
45°	1912.4	1915.6	1928.2	1953.9	1965.2
47.5°	1787.1	1797.3	1808.3	1830.6	1837.6
50°	1661.9	1672.9	1679.8	1699.7	1713.1
52.5°	1535.4	1545.6	1553.3	1565.5	1578.9
55°	1396.8	1406.5	1419.1	1432.6	1435.8
57.5°	1255.7	1266.7	1274.8	1289.0	1303.7
60°	1104.4	1117.0	1128.0	1141.4	1156.0
62.5°	963.7	969.0	980.4	1002.7	1023.9
65°	829.1	836.0	838.1	850.7	871.8
67.5°	717.3	717.3	707.1	711.6	735.2
70°	599.8	595.3	587.6	583.1	602.2
72.5°	504.6	498.9	482.3	474.5	484.7
75°	409.5	403.8	385.9	376.9	378.2
77.5°	329.0	320.0	305.4	289.9	286.7
80°	249.7	246.0	231.8	217.1	205.8
82.5°	176.9	169.2	161.0	152.1	143.1
85°	106.1	104.1	96.4	90.7	83.0
87.5°	43.5	43.5	41.5	39.0	37.0
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)