

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: P1051012

Luminaire Tested: 24PTR-80-PW1-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1051012
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737743)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-80-PW1-L830-UNV-STD-W
Description: 8000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND WAVES LENS

Light Source:
Ballast/Driver: -

Summary

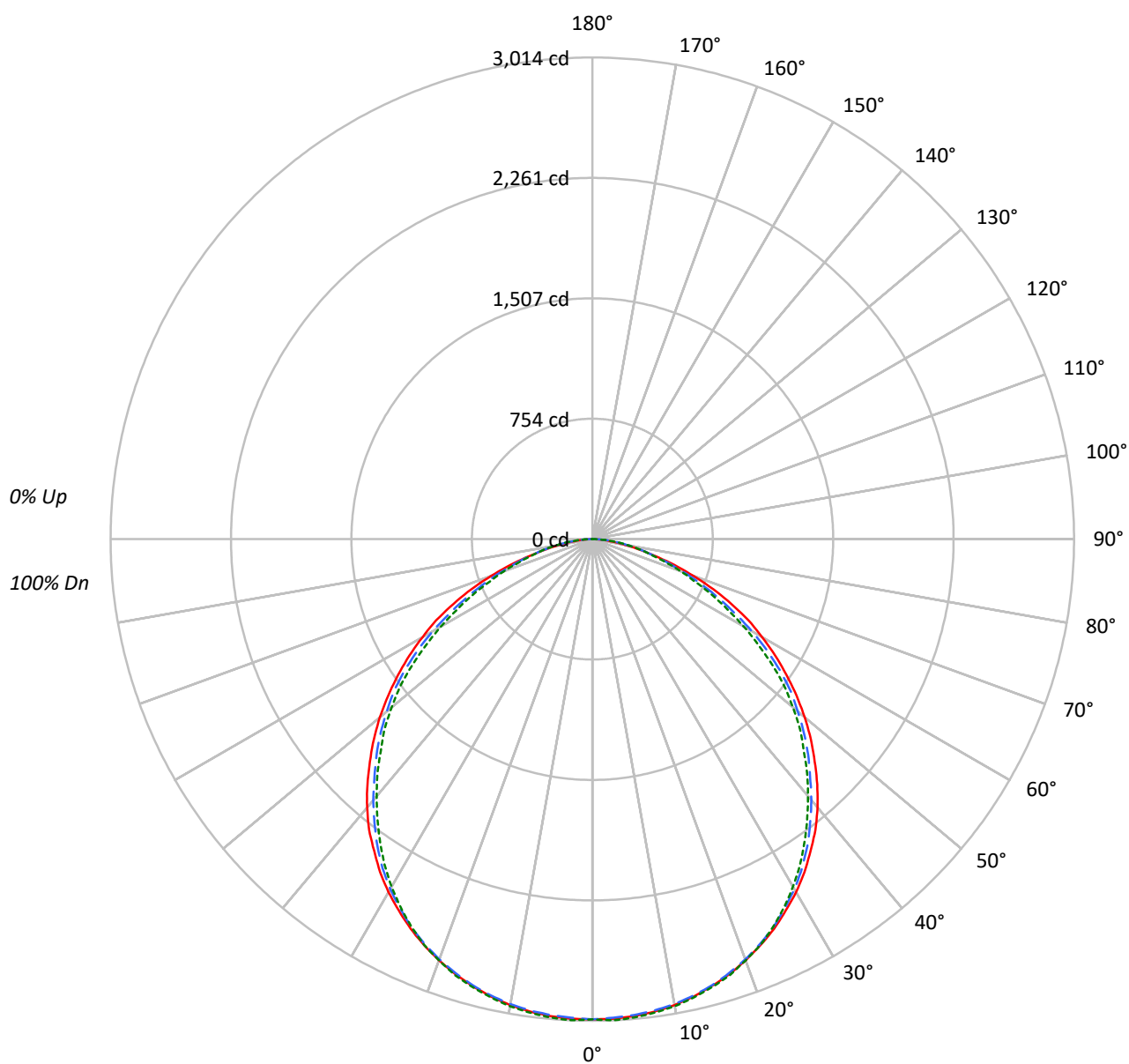
Lumens per Lamp: N/A
Luminaire Lumens: 7974.4 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	95	98	95	92	94	92	90	91	89	87	87	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	74	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	63	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	54	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	42	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	37	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	33	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	30	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	27	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4043	4043	4043
5°	4046	4038	4059
10°	4045	4036	4056
15°	4032	4026	4041
20°	4016	4006	4016
25°	3994	3977	3974
30°	3963	3929	3901
35°	3910	3851	3802
40°	3850	3745	3686
45°	3744	3633	3559
50°	3631	3512	3431
55°	3479	3362	3228
60°	3299	3104	2942
65°	3052	2772	2634
70°	2645	2413	2322
75°	2112	2065	2009
80°	1605	1793	1793
85°	1187	1530	1530

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3744 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.0	3.6
10°-20°	817.4	10.2
20°-30°	1235.3	15.5
30°-40°	1466.8	18.4
40°-50°	1477.8	18.5
50°-60°	1277.4	16.0
60°-70°	873.0	10.9
70°-80°	430.5	5.4
80°-90°	111.3	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°	2337.6	29.3
0°-40°	3804.4	47.7
0°-60°	6559.5	82.3
0°-90°	7974.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7974.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3005	3005	3005	3005	3005	
5°	2996	2997	2990	3002	3005	285
15°	2895	2898	2890	2900	2901	817
25°	2690	2688	2679	2681	2677	1239
35°	2381	2372	2345	2324	2315	1490
45°	1968	1946	1909	1887	1870	1518
55°	1483	1479	1433	1391	1376	1326
65°	958	924	871	833	827	946
75°	406	403	397	397	386	443
85°	77	90	99	101	99	94
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3004.9	3004.9	3004.9	3004.9	3004.9
2.5°	3004.1	3004.9	2997.2	3010.5	3013.8
5°	2996.0	2997.2	2989.5	3001.6	3004.9
7.5°	2981.8	2983.8	2974.9	2987.1	2989.5
10°	2960.4	2961.6	2953.9	2966.0	2968.5
12.5°	2931.6	2932.5	2926.0	2936.9	2936.9
15°	2894.8	2898.1	2890.4	2900.5	2901.3
17.5°	2853.6	2854.8	2847.1	2858.0	2860.4
20°	2804.6	2804.6	2798.1	2807.0	2804.6
22.5°	2750.0	2750.0	2742.3	2746.7	2748.8
25°	2690.1	2687.7	2678.8	2681.2	2676.8
27.5°	2620.9	2620.9	2605.1	2605.1	2597.5
30°	2550.9	2545.3	2528.7	2518.6	2510.9
32.5°	2470.4	2462.7	2441.7	2423.9	2418.2
35°	2380.6	2372.5	2344.6	2323.6	2314.6
37.5°	2293.6	2275.8	2239.0	2218.0	2207.8
40°	2192.1	2169.8	2132.2	2103.0	2098.6
42.5°	2083.2	2065.4	2016.5	1995.0	1989.8
45°	1967.5	1946.1	1909.3	1887.0	1870.4
47.5°	1853.8	1838.0	1796.0	1769.3	1763.6
50°	1734.5	1721.1	1677.8	1649.1	1639.0
52.5°	1611.1	1602.2	1565.4	1528.5	1516.4
55°	1483.2	1478.8	1433.1	1390.6	1376.0
57.5°	1357.4	1351.7	1294.7	1245.7	1232.4
60°	1225.9	1209.3	1153.5	1107.8	1093.2
62.5°	1101.3	1065.7	1005.4	969.8	953.2
65°	958.5	924.1	870.7	832.6	827.4
67.5°	818.5	777.2	735.9	712.5	694.7
70°	672.4	644.5	613.4	593.5	590.3
72.5°	536.5	516.7	500.9	488.7	478.6
75°	406.2	403.0	397.3	397.3	386.4
77.5°	298.6	306.3	310.7	309.5	311.9
80°	207.1	222.5	231.4	232.6	231.4
82.5°	131.5	149.3	163.9	165.9	168.3
85°	76.9	90.2	99.1	101.1	99.1
87.5°	34.4	43.3	45.7	47.7	45.7
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)