

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: P1050550

Luminaire Tested: 24PTR-80-PB1-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050550
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-80-PB1-L830-UNV-STD-W
Description: 8000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

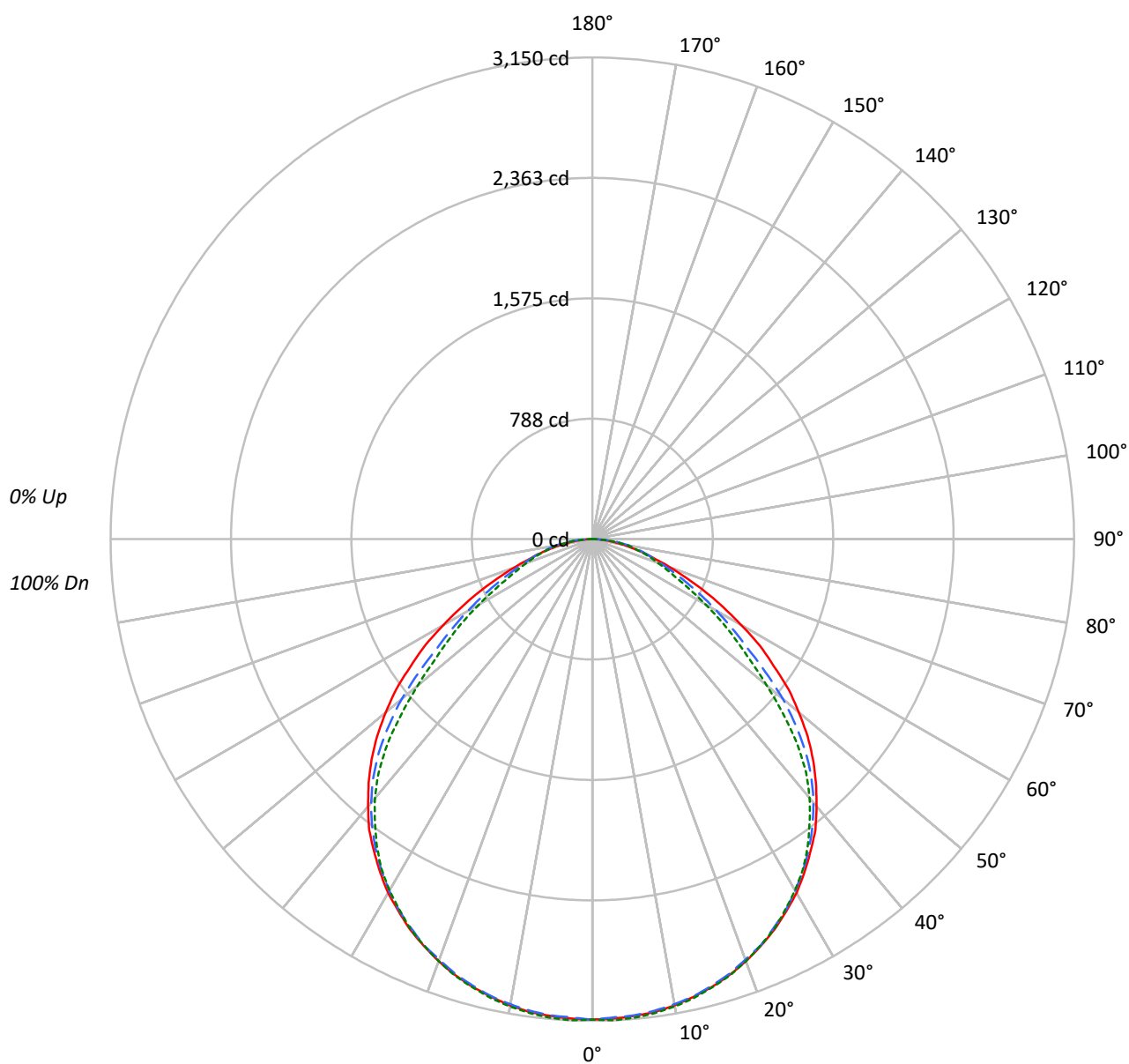
Lumens per Lamp: N/A
Luminaire Lumens: 7835.7 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64	62		
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54		
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47		
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42		
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37		
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	33		
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30		
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4228	4228	4228
5°	4228	4223	4244
10°	4230	4220	4241
15°	4221	4210	4226
20°	4206	4190	4206
25°	4183	4166	4177
30°	4150	4126	4119
35°	4088	4057	4032
40°	4005	3951	3883
45°	3883	3758	3604
50°	3690	3406	3115
55°	3400	2893	2683
60°	3027	2528	2299
65°	2597	2191	1957
70°	2144	1932	1794
75°	1808	1848	1749
80°	1528	1887	1798
85°	1196	1911	1672

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3883 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.0	3.8
10°-20°	855.0	10.9
20°-30°	1295.1	16.5
30°-40°	1543.2	19.7
40°-50°	1509.0	19.3
50°-60°	1141.4	14.6
60°-70°	701.3	8.9
70°-80°	373.6	4.8
80°-90°	119.2	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°	2448.0	31.2
0°-40°	3991.1	50.9
0°-60°	6641.6	84.8
0°-90°	7835.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7835.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3142	3142	3142	3142	3142	
5°	3131	3135	3127	3139	3142	298
15°	3030	3034	3023	3034	3034	855
25°	2818	2814	2806	2810	2814	1298
35°	2489	2485	2470	2458	2455	1557
45°	2041	2029	1975	1909	1894	1570
55°	1450	1376	1233	1163	1144	1298
65°	816	750	688	634	615	812
75°	348	352	356	344	336	373
85°	78	101	124	116	108	93
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3142.4	3142.4	3142.4	3142.4	3142.4
2.5°	3138.7	3142.4	3130.6	3146.4	3150.1
5°	3130.6	3134.7	3127.0	3138.7	3142.4
7.5°	3119.2	3119.2	3111.5	3122.9	3127.0
10°	3096.1	3096.1	3088.4	3099.8	3103.8
12.5°	3065.3	3065.3	3061.2	3068.9	3073.0
15°	3030.4	3034.0	3022.7	3034.0	3034.0
17.5°	2987.8	2984.1	2980.1	2987.8	2991.8
20°	2937.5	2937.5	2926.1	2933.8	2937.5
22.5°	2879.4	2879.4	2875.8	2879.4	2875.8
25°	2817.7	2813.7	2806.0	2810.0	2813.7
27.5°	2744.3	2744.3	2736.6	2736.6	2732.5
30°	2670.9	2666.8	2655.4	2647.7	2651.4
32.5°	2582.0	2577.9	2566.6	2558.9	2562.5
35°	2489.1	2485.4	2470.0	2458.2	2454.6
37.5°	2396.5	2384.8	2365.3	2349.9	2334.5
40°	2280.5	2268.7	2249.7	2214.8	2210.7
42.5°	2164.4	2153.1	2121.8	2079.6	2067.9
45°	2040.7	2029.3	1974.9	1909.2	1893.8
47.5°	1909.2	1890.1	1804.9	1723.8	1692.9
50°	1762.7	1727.8	1627.2	1522.9	1488.0
52.5°	1619.5	1557.8	1426.3	1333.4	1298.9
55°	1449.5	1376.0	1233.2	1163.4	1143.9
57.5°	1298.9	1198.3	1082.2	1012.8	997.4
60°	1124.8	1031.9	939.4	877.3	854.2
62.5°	966.2	885.0	807.9	753.5	726.8
65°	815.6	749.9	688.2	633.8	614.8
67.5°	668.7	633.8	583.5	541.3	529.5
70°	545.0	525.5	491.0	471.5	456.1
72.5°	433.0	440.7	417.5	409.8	398.1
75°	347.8	351.8	355.5	344.1	336.4
77.5°	262.9	282.0	297.4	289.7	282.0
80°	197.2	216.3	243.5	232.1	232.1
82.5°	135.1	158.7	181.8	174.1	170.0
85°	77.5	100.6	123.8	116.1	108.3
87.5°	30.8	50.3	54.0	54.0	50.3
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)