

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: P1050935

Luminaire Tested: 24PTR-80-PR1-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050935
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737735)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-80-PR1-L830-UNV-STD-W
Description: 8000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND RIPPLE LENS

Light Source:
Ballast/Driver: -

Summary

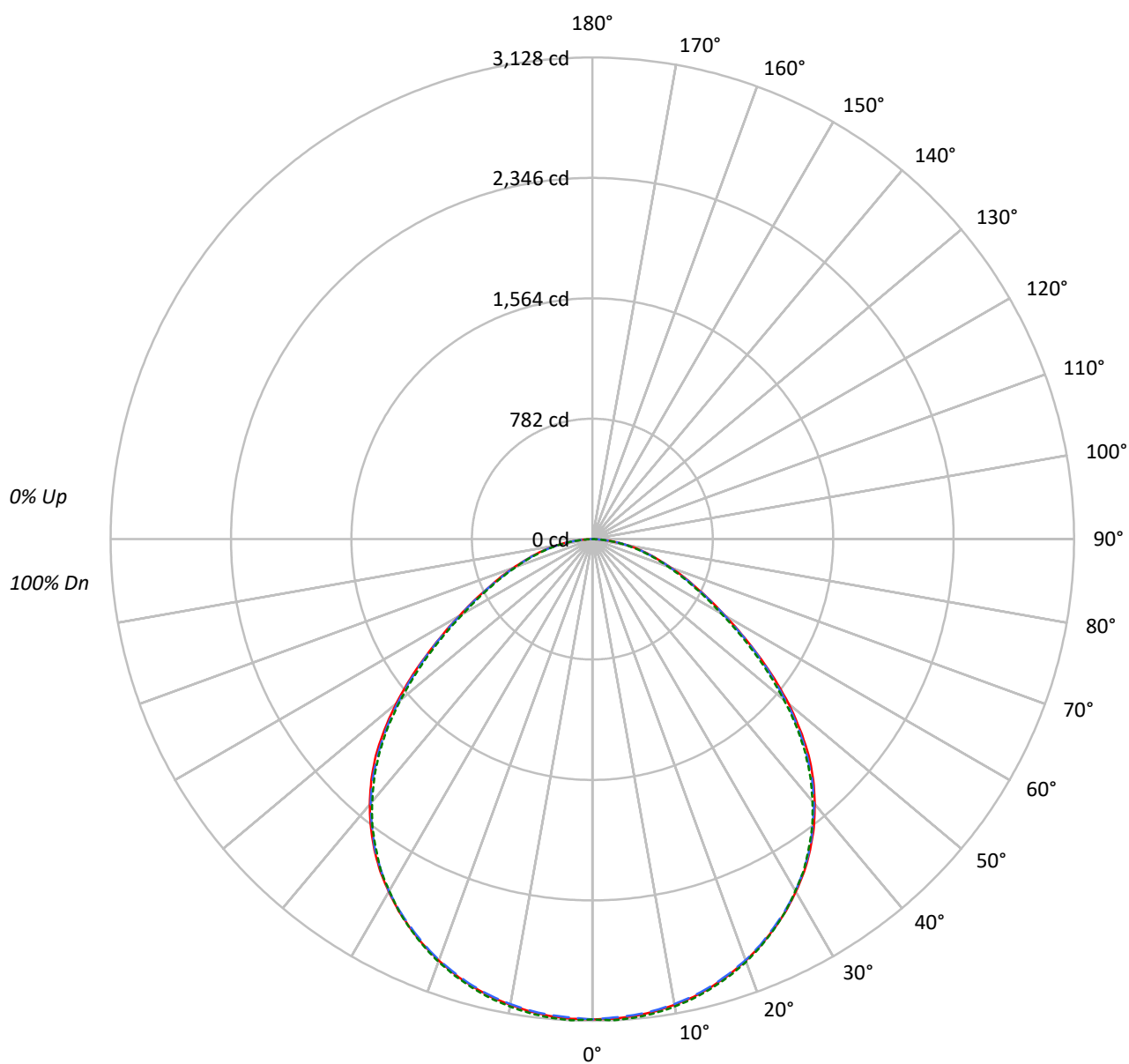
Lumens per Lamp: N/A
Luminaire Lumens: 7887.1 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	92	90	91	89	88	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62		
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54		
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	47		
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41		
7	67	54	45	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37		
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33		
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30		
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4196	4196	4196
5°	4200	4191	4214
10°	4197	4189	4212
15°	4189	4182	4202
20°	4171	4166	4182
25°	4144	4134	4149
30°	4107	4102	4097
35°	4051	4041	4025
40°	3948	3933	3905
45°	3784	3741	3714
50°	3481	3442	3400
55°	3081	3068	3008
60°	2678	2668	2596
65°	2360	2345	2299
70°	2141	2111	2067
75°	1983	1936	1900
80°	1809	1784	1725
85°	1430	1417	1360

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3784 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.8	3.8
10°-20°	849.1	10.8
20°-30°	1286.4	16.3
30°-40°	1535.6	19.5
40°-50°	1510.2	19.1
50°-60°	1167.2	14.8
60°-70°	736.0	9.3
70°-80°	398.1	5.0
80°-90°	108.7	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°	2431.3	30.8
0°-40°	3966.9	50.3
0°-60°	6644.2	84.2
0°-90°	7887.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7887.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3119	3119	3119	3119	3119	
5°	3110	3111	3103	3116	3120	296
15°	3007	3008	3002	3012	3017	849
25°	2791	2793	2784	2793	2795	1286
35°	2466	2467	2460	2457	2450	1540
45°	1988	1981	1966	1951	1952	1523
55°	1313	1324	1308	1287	1282	1179
65°	741	742	737	724	722	746
75°	381	377	372	374	366	405
85°	93	94	92	93	88	110
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3118.7	3118.7	3118.7	3118.7	3118.7
2.5°	3117.4	3118.7	3109.7	3124.4	3127.6
5°	3109.7	3110.9	3102.8	3116.2	3119.9
7.5°	3093.9	3096.3	3088.6	3102.0	3105.3
10°	3071.6	3074.0	3066.3	3079.7	3082.9
12.5°	3043.9	3044.8	3038.3	3050.4	3053.7
15°	3007.0	3007.8	3002.5	3012.3	3016.7
17.5°	2964.3	2965.6	2957.8	2970.0	2972.1
20°	2913.2	2914.0	2909.5	2919.7	2920.9
22.5°	2855.9	2858.3	2851.4	2860.4	2861.6
25°	2791.3	2793.4	2784.4	2793.4	2794.6
27.5°	2723.1	2723.9	2716.2	2723.1	2721.9
30°	2643.5	2650.4	2640.2	2637.8	2637.0
32.5°	2561.1	2561.9	2552.1	2549.7	2554.1
35°	2466.0	2466.8	2460.3	2457.1	2450.2
37.5°	2362.0	2362.0	2349.5	2347.4	2346.2
40°	2247.9	2246.7	2239.0	2231.3	2223.2
42.5°	2123.6	2126.1	2110.2	2096.8	2094.8
45°	1988.4	1980.7	1966.1	1950.6	1951.9
47.5°	1828.8	1830.8	1810.9	1798.3	1795.1
50°	1663.1	1663.1	1644.4	1631.0	1624.1
52.5°	1490.1	1491.3	1473.4	1455.6	1451.9
55°	1313.4	1324.4	1307.7	1286.6	1282.1
57.5°	1148.1	1157.1	1141.2	1118.9	1117.7
60°	995.0	995.8	991.4	970.2	964.6
62.5°	864.2	858.6	856.1	845.2	838.3
65°	741.2	742.4	736.7	724.1	722.1
67.5°	641.7	640.5	630.3	622.6	618.1
70°	544.2	541.0	536.5	530.0	525.5
72.5°	457.3	457.3	453.6	451.6	443.9
75°	381.4	376.9	372.4	374.5	365.5
77.5°	308.7	304.2	300.5	296.1	294.0
80°	233.5	229.1	230.3	223.4	222.6
82.5°	162.0	162.0	160.0	154.3	155.5
85°	92.6	93.8	91.8	92.6	88.1
87.5°	33.7	34.5	37.0	34.5	34.5
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)