

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: P1050881

Luminaire Tested: 24PTR-100-PP3-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050881
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737727)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-100-PP3-L840-UNV-STD-W
Description: 10000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND PRISM LENS

Light Source:
Ballast/Driver: -

Summary

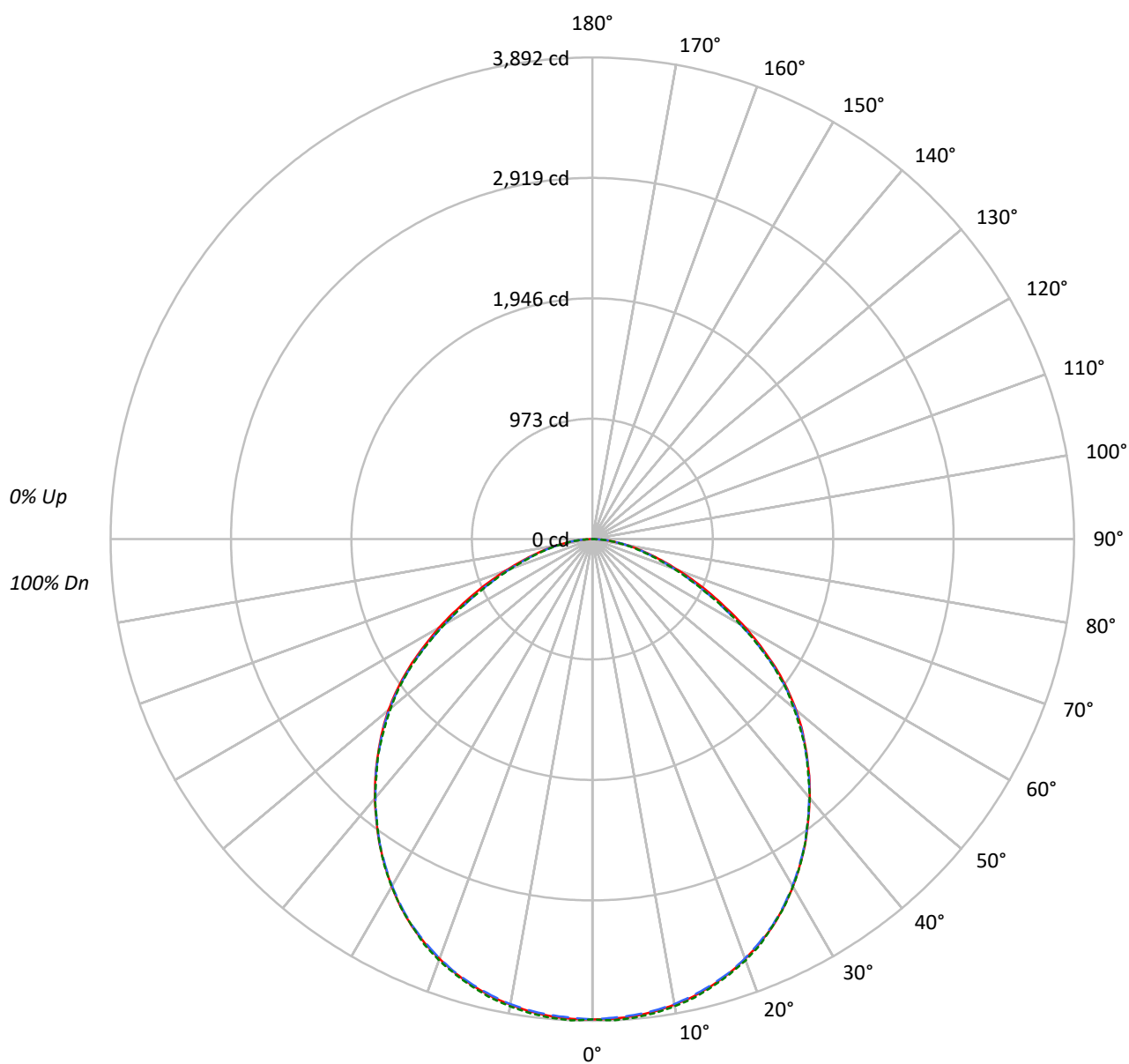
Lumens per Lamp: N/A
Luminaire Lumens: 10027.9 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 85
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	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	61		
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53		
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	52	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	42	40		
7	66	53	45	39	65	52	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32		
9	58	45	37	31	57	44	36	31	43	36	31	42	35	31	41	35	31	29		
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5222	5222	5222
5°	5227	5215	5243
10°	5219	5212	5237
15°	5202	5192	5216
20°	5168	5164	5186
25°	5122	5114	5120
30°	5036	5025	5036
35°	4926	4919	4924
40°	4800	4785	4797
45°	4656	4642	4648
50°	4500	4479	4447
55°	4236	4187	4174
60°	3845	3715	3722
65°	3377	3207	3202
70°	2920	2787	2755
75°	2525	2432	2379
80°	2237	2205	2106
85°	1849	1913	1802

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 4672 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.1	3.7
10°-20°	1054.4	10.5
20°-30°	1587.5	15.8
30°-40°	1873.6	18.7
40°-50°	1884.4	18.8
50°-60°	1590.8	15.9
60°-70°	1021.7	10.2
70°-80°	508.1	5.1
80°-90°	139.2	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°	3010.0	30.0
0°-40°	4883.6	48.7
0°-60°	8358.8	83.4
0°-90°	10027.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10027.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3881	3881	3881	3881	3881	
5°	3870	3871	3861	3880	3882	368
15°	3735	3736	3728	3744	3744	1054
25°	3450	3451	3444	3451	3449	1587
35°	2999	3001	2995	2998	2998	1874
45°	2447	2456	2440	2443	2443	1888
55°	1806	1804	1785	1778	1779	1606
65°	1061	1045	1007	997	1006	1057
75°	486	483	468	463	458	526
85°	120	124	124	117	117	141
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3881.1	3881.1	3881.1	3881.1	<i>3881.1</i>
2.5°	<i>3879.6</i>	<i>3881.1</i>	<i>3870.9</i>	<i>3889.3</i>	<i>3892.4</i>
5°	3869.9	3870.9	3861.2	3879.6	<i>3882.1</i>
7.5°	3849.9	3851.4	3842.7	3859.6	<i>3862.7</i>
10°	3820.2	3824.8	3814.6	3830.4	<i>3833.0</i>
12.5°	3783.9	3785.4	3775.2	3793.6	<i>3796.7</i>
15°	3734.7	3735.7	3727.6	3744.4	<i>3744.4</i>
17.5°	3677.9	3679.4	3673.8	3688.1	<i>3686.6</i>
20°	3609.3	3613.4	3606.2	3616.0	<i>3621.6</i>
22.5°	3534.6	3536.1	3527.4	3540.2	<i>3545.8</i>
25°	3450.1	3451.1	3444.5	3451.1	<i>3448.6</i>
27.5°	3351.3	3353.9	3344.2	3351.3	<i>3352.9</i>
30°	3241.3	3248.4	3234.6	3240.2	<i>3241.3</i>
32.5°	3123.0	3127.1	3117.4	3118.9	<i>3126.1</i>
35°	2999.1	3000.7	2995.0	2997.6	<i>2997.6</i>
37.5°	2865.5	2871.2	2862.5	2866.6	<i>2860.9</i>
40°	2733.0	2727.3	2724.3	2727.3	<i>2731.4</i>
42.5°	2593.2	2594.7	2590.7	2587.6	<i>2580.9</i>
45°	2446.8	2455.5	2439.6	2442.7	<i>2442.7</i>
47.5°	2303.5	2304.5	2296.3	2287.6	<i>2282.0</i>
50°	2149.9	2149.9	2139.7	2133.0	<i>2124.3</i>
52.5°	1982.0	1979.5	1968.2	1961.0	<i>1965.1</i>
55°	1805.9	1804.4	1784.9	1777.8	<i>1779.3</i>
57.5°	1613.0	1616.0	1586.3	1579.2	<i>1579.2</i>
60°	1428.7	1414.3	1380.6	1370.8	<i>1383.1</i>
62.5°	1235.2	1218.3	1181.9	1181.9	<i>1191.7</i>
65°	1060.6	1045.3	1007.4	997.2	<i>1005.9</i>
67.5°	897.3	883.0	848.2	842.6	<i>845.1</i>
70°	742.2	729.9	708.5	695.7	<i>700.3</i>
72.5°	608.6	597.4	583.0	573.3	<i>567.7</i>
75°	485.8	483.2	467.9	463.3	<i>457.6</i>
77.5°	384.4	383.4	370.6	365.0	<i>359.3</i>
80°	288.7	287.2	284.6	275.9	<i>271.8</i>
82.5°	205.8	205.8	204.2	197.1	<i>193.0</i>
85°	119.8	123.9	123.9	116.7	<i>116.7</i>
87.5°	48.1	50.7	48.1	48.1	<i>46.6</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)