

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: P1051035

Luminaire Tested: 24PTR-100-PW1-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1051035
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-100-PW1-L840-UNV-STD-W
Description: 10000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND WAVES LENS

Light Source:
Ballast/Driver: -

Summary

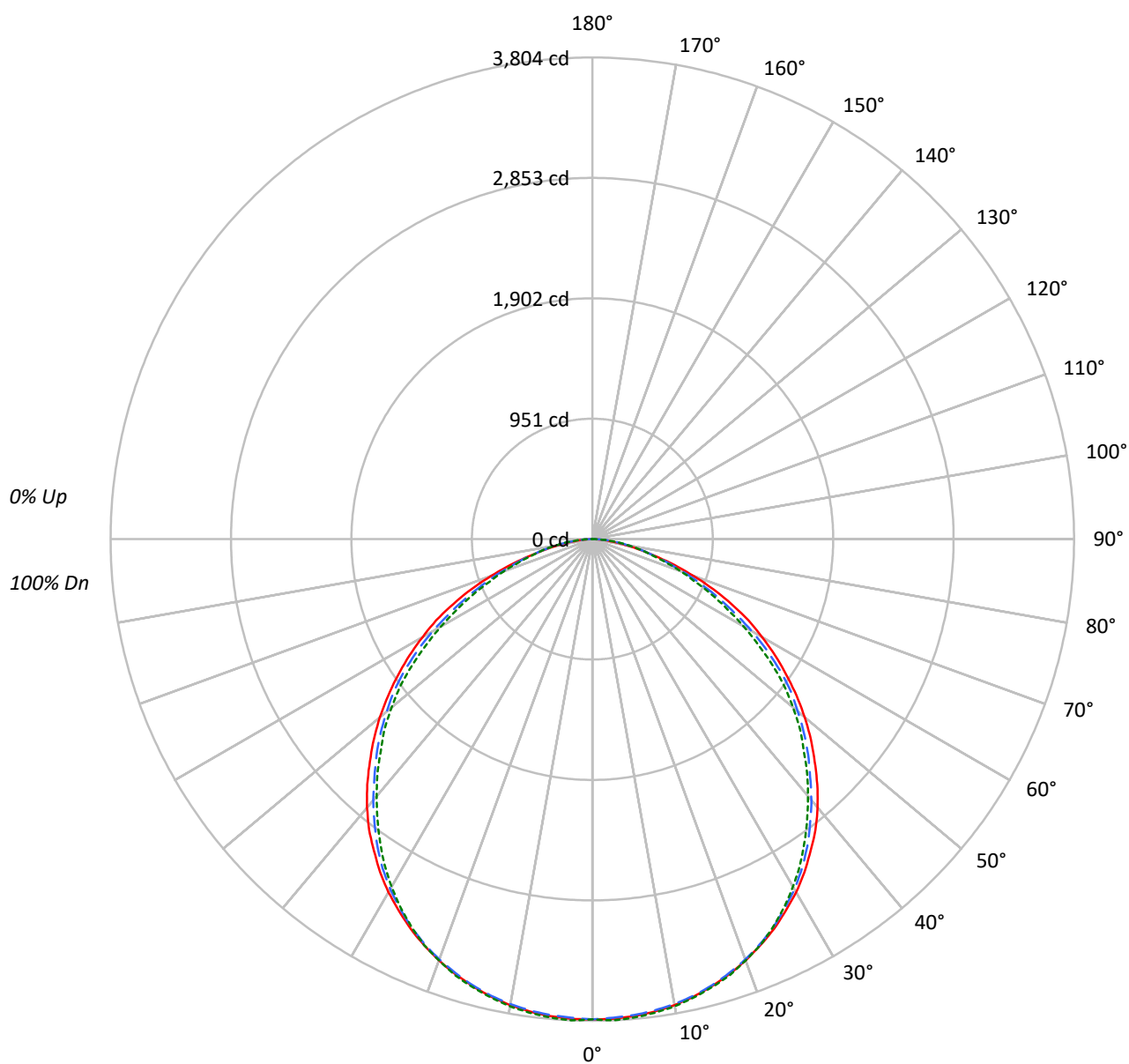
Lumens per Lamp: N/A
Luminaire Lumens: 10065.7 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	5103	5103	5103
5°	5108	5097	5123
10°	5105	5094	5119
15°	5090	5082	5101
20°	5069	5057	5069
25°	5041	5020	5016
30°	5003	4959	4924
35°	4936	4861	4799
40°	4860	4727	4653
45°	4726	4586	4492
50°	4583	4433	4330
55°	4392	4243	4074
60°	4164	3918	3713
65°	3852	3499	3325
70°	3339	3046	2931
75°	2665	2607	2535
80°	2026	2263	2263
85°	1497	1931	1931

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4726 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.7	3.6
10°-20°	1031.7	10.2
20°-30°	1559.3	15.5
30°-40°	1851.5	18.4
40°-50°	1865.3	18.5
50°-60°	1612.3	16.0
60°-70°	1102.0	10.9
70°-80°	543.4	5.4
80°-90°	140.5	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°	2950.7	29.3
0°-40°	4802.2	47.7
0°-60°	8279.8	82.3
0°-90°	10065.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10065.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3793	3793	3793	3793	3793	
5°	3782	3783	3774	3789	3793	360
15°	3654	3658	3648	3661	3662	1031
25°	3396	3392	3381	3384	3379	1564
35°	3005	2995	2960	2933	2922	1881
45°	2484	2456	2410	2382	2361	1917
55°	1872	1867	1809	1755	1737	1674
65°	1210	1166	1099	1051	1044	1194
75°	513	509	502	502	488	559
85°	97	114	125	128	125	119
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3792.9	3792.9	3792.9	3792.9	3792.9
2.5°	3791.9	3792.9	3783.2	3800.1	3804.2
5°	3781.7	3783.2	3773.5	3788.8	3792.9
7.5°	3763.8	3766.4	3755.1	3770.5	3773.5
10°	3736.7	3738.3	3728.6	3743.9	3747.0
12.5°	3700.5	3701.5	3693.3	3707.1	3707.1
15°	3654.0	3658.1	3648.4	3661.2	3662.2
17.5°	3601.9	3603.5	3593.8	3607.5	3610.6
20°	3540.1	3540.1	3532.0	3543.2	3540.1
22.5°	3471.2	3471.2	3461.5	3467.1	3469.7
25°	3395.6	3392.5	3381.3	3384.4	3378.7
27.5°	3308.3	3308.3	3288.4	3288.4	3278.7
30°	3219.9	3212.8	3191.8	3179.1	3169.4
32.5°	3118.3	3108.6	3082.0	3059.6	3052.4
35°	3004.9	2994.7	2959.5	2932.9	2921.7
37.5°	2895.1	2872.7	2826.2	2799.6	2786.9
40°	2766.9	2738.8	2691.4	2654.6	2649.0
42.5°	2629.6	2607.1	2545.3	2518.2	2511.6
45°	2483.5	2456.4	2410.0	2381.9	2360.9
47.5°	2340.0	2320.1	2267.0	2233.3	2226.1
50°	2189.3	2172.5	2117.8	2081.6	2068.8
52.5°	2033.6	2022.3	1975.9	1929.4	1914.1
55°	1872.2	1866.6	1808.9	1755.3	1736.9
57.5°	1713.4	1706.2	1634.2	1572.4	1555.6
60°	1547.4	1526.5	1456.0	1398.3	1379.9
62.5°	1390.1	1345.2	1269.1	1224.1	1203.2
65°	1209.8	1166.4	1099.0	1051.0	1044.4
67.5°	1033.1	981.0	929.0	899.3	876.9
70°	848.8	813.5	774.2	749.2	745.1
72.5°	677.2	652.2	632.2	616.9	604.2
75°	512.7	508.7	501.5	501.5	487.7
77.5°	376.9	386.6	392.2	390.7	393.7
80°	261.5	280.9	292.1	293.6	292.1
82.5°	166.0	188.4	206.8	209.4	212.4
85°	97.0	113.9	125.1	127.7	125.1
87.5°	43.4	54.6	57.7	60.3	57.7
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)