

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: P1050496

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

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050496
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2310-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-100-L840-UNV-STD-W
Description: 10000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

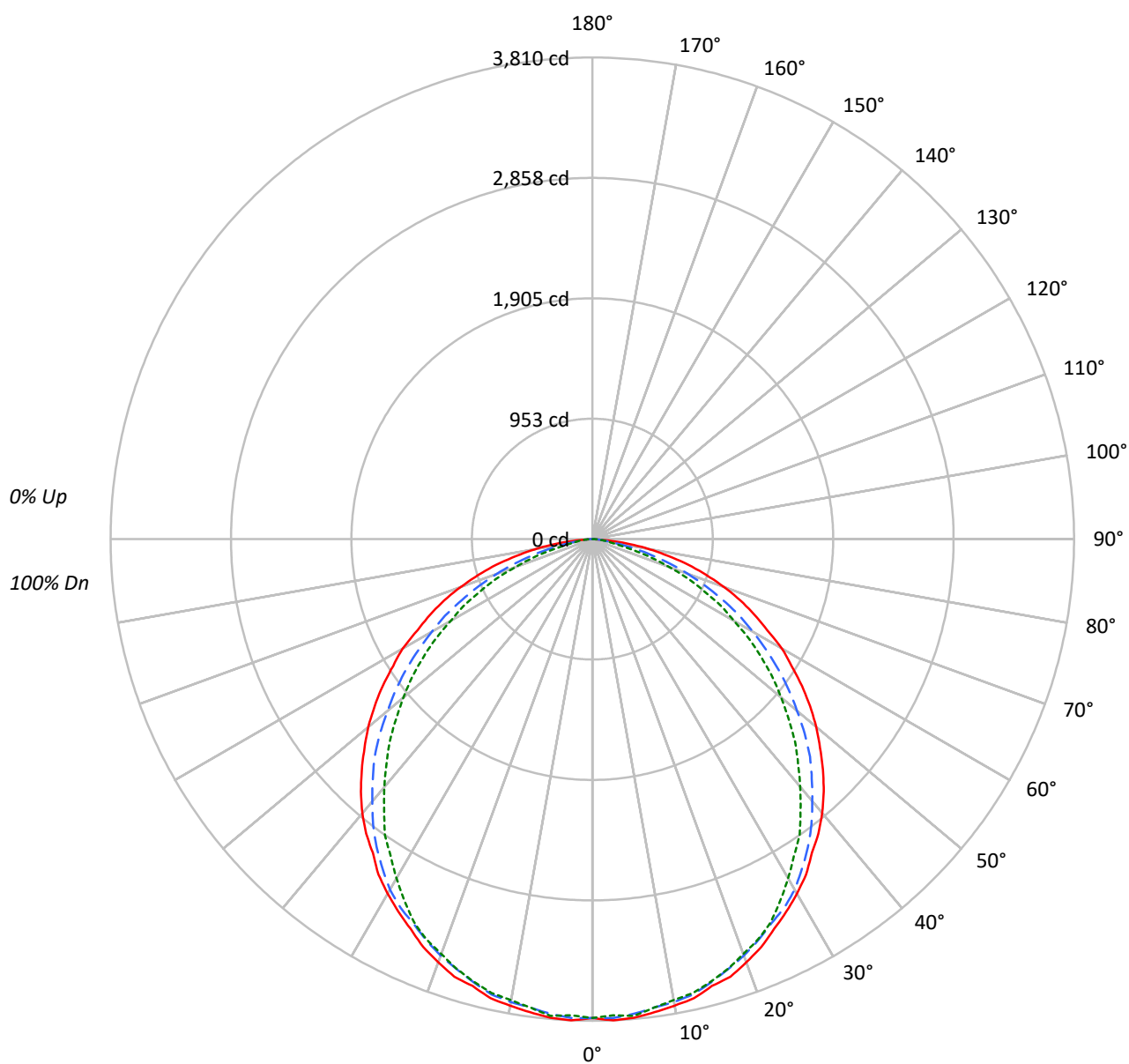
Lumens per Lamp: N/A
Luminaire Lumens: 10088.9 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1050496

CATALOG NUMBER: 24PTR-100-L840-UNV-STD-W

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	96	98	95	93	95	92	90	91	89	87	87	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	74	74	72
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	56	68	61	56	66	60	55	64	58	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	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	33	33	31
9	57	44	36	31	56	44	36	30	42	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	27	37	32	27	27	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5096	5096	5096
5°	5134	5091	5113
10°	5119	5079	5058
15°	5097	5056	5047
20°	5100	5019	5000
25°	5050	4977	4960
30°	5029	4973	4812
35°	4973	4884	4695
40°	4969	4755	4493
45°	4906	4632	4314
50°	4840	4424	4080
55°	4747	4217	3831
60°	4662	3946	3478
65°	4503	3620	3110
70°	4357	3150	2538
75°	4093	2486	1747
80°	3548	1503	1049
85°	2368	1079	1010

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4906 cd/sqm

TEST NUMBER: P1050496

CATALOG NUMBER: 24PTR-100-L840-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.0	3.6
10°-20°	1027.4	10.2
20°-30°	1551.9	15.4
30°-40°	1845.1	18.3
40°-50°	1871.3	18.5
50°-60°	1624.9	16.1
60°-70°	1153.5	11.4
70°-80°	551.3	5.5
80°-90°	104.5	1.0
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°	2938.3	29.1
0°-40°	4783.4	47.4
0°-60°	8279.6	82.1
0°-90°	10088.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10088.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3788	3788	3788	3788	3788	
5°	3801	3788	3770	3779	3785	361
15°	3659	3668	3630	3625	3623	1036
25°	3402	3397	3352	3366	3341	1571
35°	3027	3023	2973	2872	2858	1902
45°	2578	2556	2434	2306	2267	1989
55°	2024	1963	1798	1692	1633	1808
65°	1414	1308	1137	1015	977	1401
75°	787	643	478	379	336	826
85°	153	81	70	68	65	193
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3787.6	3787.6	3787.6	3787.6	3787.6
2.5°	3810.2	3796.6	3792.1	3807.9	3769.6
5°	3801.1	3787.6	3769.6	3778.6	3785.3
7.5°	3774.1	3762.8	3738.0	3758.3	3738.0
10°	3747.0	3735.7	3717.7	3724.4	3701.9
12.5°	3719.9	3692.9	3688.3	3692.9	3677.1
15°	3659.0	3668.0	3629.7	3625.2	3622.9
17.5°	3629.7	3607.1	3566.5	3568.8	3564.3
20°	3562.0	3534.9	3505.6	3501.1	3492.1
22.5°	3492.1	3460.5	3433.4	3447.0	3426.7
25°	3401.8	3397.3	3352.2	3365.8	3340.9
27.5°	3322.9	3307.1	3286.8	3257.5	3221.4
30°	3237.2	3221.4	3201.1	3124.4	3097.3
32.5°	3146.9	3128.9	3088.3	2998.0	2968.7
35°	3027.4	3022.9	2973.2	2871.7	2858.2
37.5°	2937.1	2887.5	2846.9	2743.1	2704.8
40°	2828.9	2801.8	2707.0	2607.8	2558.2
42.5°	2709.3	2677.7	2569.4	2463.4	2409.3
45°	2578.5	2555.9	2434.1	2305.5	2267.1
47.5°	2443.1	2422.8	2278.4	2154.4	2104.7
50°	2312.3	2287.4	2113.7	1994.2	1949.1
52.5°	2170.1	2129.5	1958.1	1840.8	1797.9
55°	2023.5	1962.6	1797.9	1691.9	1633.2
57.5°	1867.9	1811.5	1628.7	1518.2	1470.8
60°	1732.5	1653.6	1466.3	1353.5	1292.6
62.5°	1558.8	1491.1	1312.9	1179.8	1150.5
65°	1414.4	1308.4	1137.0	1015.1	976.8
67.5°	1267.8	1143.7	970.0	845.9	825.6
70°	1107.6	979.0	800.8	679.0	645.2
72.5°	945.2	818.9	645.2	516.6	496.3
75°	787.3	642.9	478.2	379.0	336.1
77.5°	615.9	485.0	336.1	232.4	205.3
80°	457.9	327.1	194.0	137.6	135.4
82.5°	300.0	189.5	103.8	106.0	101.5
85°	153.4	81.2	69.9	67.7	65.4
87.5°	29.3	31.6	33.8	33.8	33.8
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)