

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: P1050650

Luminaire Tested: 24PTR-100-PC3-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050650
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737711)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-100-PC3-L840-UNV-STD-W
Description: 10000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND PARAMID LENS

Light Source:
Ballast/Driver: -

Summary

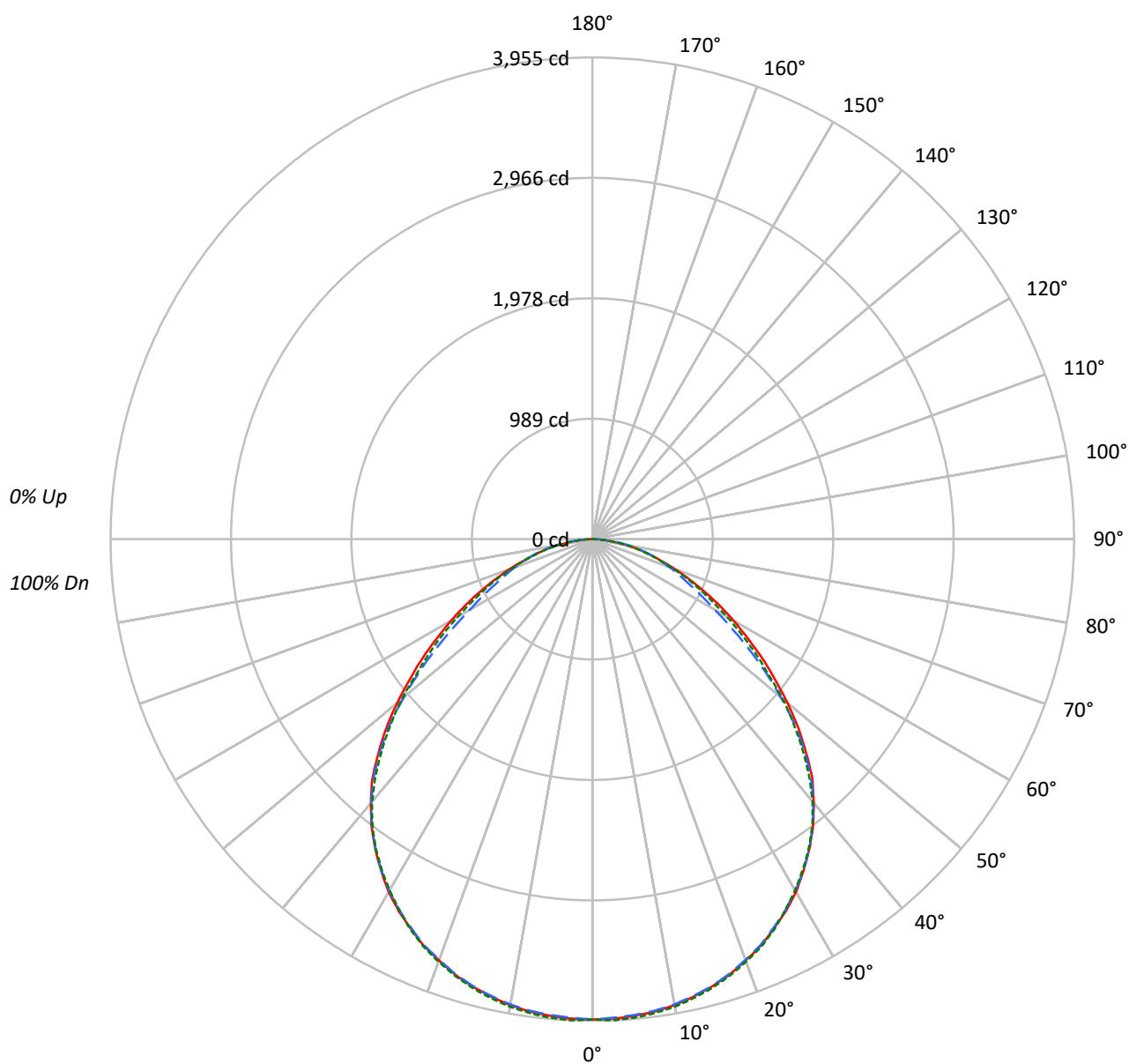
Lumens per Lamp: N/A
Luminaire Lumens: 9943.5 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1050650

CATALOG NUMBER: 24PTR-100-PC3-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	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72		
3	92	82	74	68	90	80	73	68	77	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	46	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	40	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5307	5307	5307
5°	5308	5299	5329
10°	5308	5298	5327
15°	5295	5290	5313
20°	5271	5263	5286
25°	5236	5228	5248
30°	5197	5179	5171
35°	5103	5098	5088
40°	4967	4960	4938
45°	4724	4689	4641
50°	4373	4226	4273
55°	3990	3667	3832
60°	3598	3128	3432
65°	3216	2798	3086
70°	2853	2648	2775
75°	2523	2566	2472
80°	2177	2450	2164
85°	1630	1939	1630

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 4735 cd/sqm

TEST NUMBER: P1050650

CATALOG NUMBER: 24PTR-100-PC3-L840-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.1	3.8
10°-20°	1073.7	10.8
20°-30°	1625.7	16.3
30°-40°	1938.2	19.5
40°-50°	1893.8	19.0
50°-60°	1448.1	14.6
60°-70°	929.7	9.4
70°-80°	517.3	5.2
80°-90°	142.9	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°	3073.5	30.9
0°-40°	5011.7	50.4
0°-60°	8353.6	84.0
0°-90°	9943.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9943.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3944	3944	3944	3944	3944	
5°	3930	3933	3923	3942	3946	374
15°	3802	3805	3798	3810	3814	1073
25°	3527	3531	3521	3532	3535	1627
35°	3107	3109	3104	3102	3098	1941
45°	2483	2488	2464	2459	2439	1910
55°	1701	1642	1563	1583	1634	1521
65°	1010	932	879	908	969	1008
75°	485	490	494	487	476	519
85°	106	124	126	122	106	130
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3944.1	3944.1	3944.1	3944.1	3944.1
2.5°	3941.5	3943.0	3932.8	3949.7	3955.3
5°	3930.2	3932.8	3923.0	3941.5	3945.6
7.5°	3913.3	3915.9	3906.1	3924.6	3926.1
10°	3885.1	3886.7	3877.9	3896.4	3899.0
12.5°	3847.2	3851.3	3841.5	3858.5	3859.5
15°	3801.6	3804.6	3797.5	3810.3	3814.4
17.5°	3748.3	3749.8	3742.6	3756.5	3758.0
20°	3681.6	3681.6	3676.0	3691.9	3691.9
22.5°	3614.0	3609.9	3608.3	3614.0	3622.7
25°	3526.8	3530.9	3521.2	3532.5	3535.0
27.5°	3442.3	3442.3	3433.6	3439.2	3432.0
30°	3344.9	3339.2	3333.6	3334.6	3328.0
32.5°	3227.5	3227.5	3225.0	3225.0	3216.2
35°	3106.6	3109.1	3103.5	3101.9	3097.8
37.5°	2976.4	2981.0	2970.7	2968.2	2965.1
40°	2828.2	2828.2	2824.1	2818.5	2811.3
42.5°	2674.5	2674.5	2656.5	2642.2	2632.4
45°	2482.8	2488.4	2464.3	2458.7	2439.2
47.5°	2292.1	2288.0	2255.7	2251.6	2240.3
50°	2089.1	2065.1	2018.9	2031.2	2041.5
52.5°	1886.2	1856.4	1788.8	1802.6	1819.5
55°	1701.1	1642.2	1563.3	1582.7	1633.5
57.5°	1507.9	1429.0	1350.1	1387.0	1450.0
60°	1337.2	1248.6	1162.5	1201.9	1275.2
62.5°	1173.7	1079.4	1010.2	1048.2	1110.2
65°	1010.2	932.3	879.0	908.2	969.2
67.5°	860.6	808.3	771.9	785.7	834.9
70°	725.3	692.5	673.0	677.1	705.3
72.5°	596.6	588.4	581.2	581.2	583.8
75°	485.4	489.5	493.6	486.9	475.6
77.5°	382.4	396.2	406.5	392.1	378.3
80°	280.9	303.4	316.2	300.4	279.3
82.5°	191.7	217.3	221.4	211.7	187.6
85°	105.6	124.0	125.6	121.5	105.6
87.5°	39.5	46.6	50.7	46.6	41.0
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)