

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: P1050959

Luminaire Tested: 24PTR-90-PR1-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050959
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-90-PR1-L840-UNV-STD-W
Description: 9000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND RIPPLE LENS

Light Source:
Ballast/Driver: -

Summary

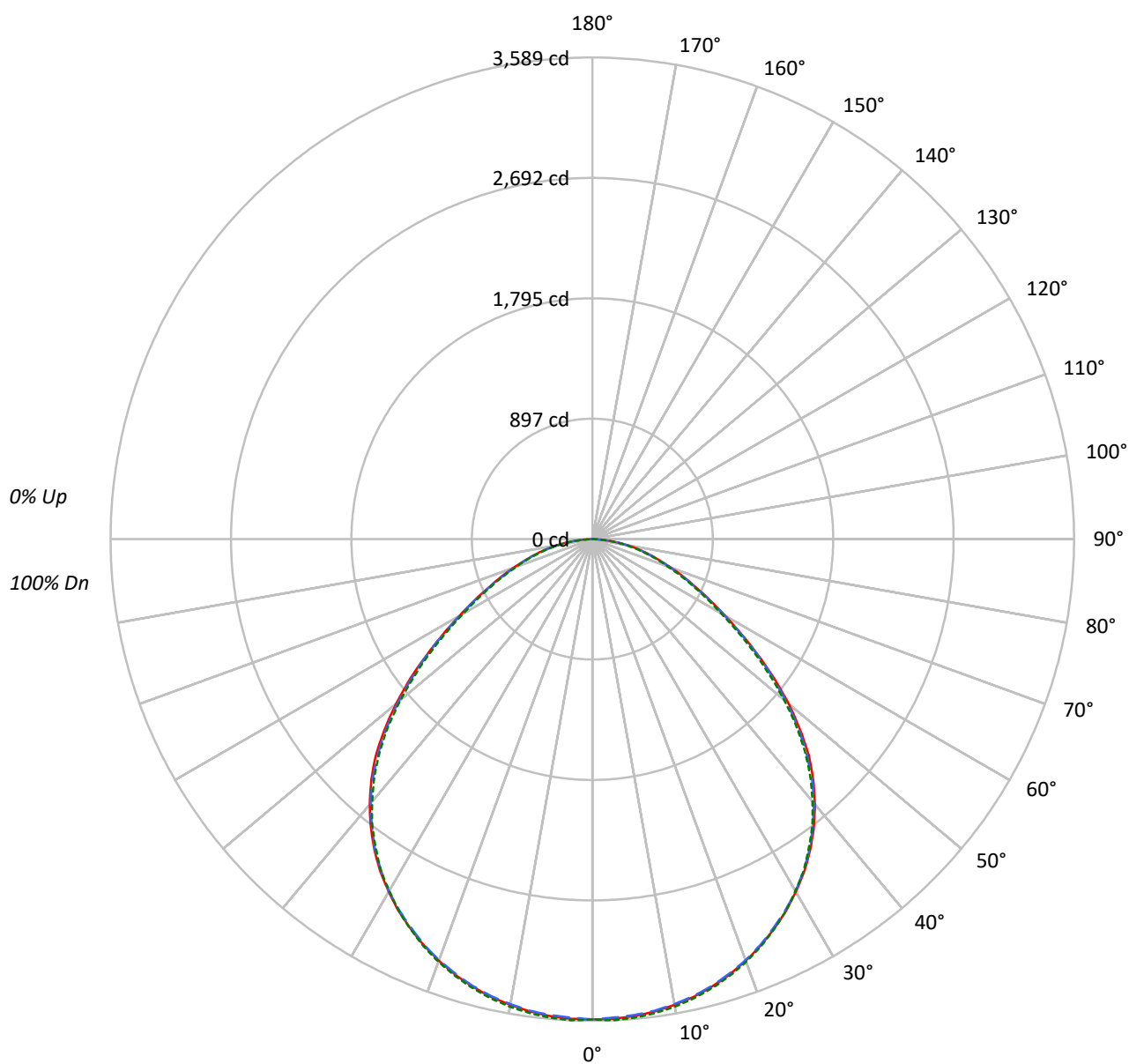
Lumens per Lamp: N/A
Luminaire Lumens: 9050.1 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 76
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°	4815	4815	4815
5°	4819	4809	4835
10°	4815	4807	4833
15°	4806	4799	4822
20°	4786	4780	4799
25°	4755	4743	4761
30°	4713	4707	4701
35°	4648	4637	4618
40°	4530	4513	4481
45°	4341	4293	4262
50°	3994	3950	3901
55°	3535	3520	3451
60°	3072	3061	2978
65°	2708	2691	2638
70°	2457	2422	2372
75°	2275	2221	2180
80°	2077	2047	1979
85°	1641	1626	1561

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4341 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.4	3.8
10°-20°	974.3	10.8
20°-30°	1476.0	16.3
30°-40°	1762.1	19.5
40°-50°	1732.8	19.1
50°-60°	1339.3	14.8
60°-70°	844.5	9.3
70°-80°	456.8	5.0
80°-90°	124.8	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°	2789.8	30.8
0°-40°	4551.8	50.3
0°-60°	7624.0	84.2
0°-90°	9050.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9050.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3578	3578	3578	3578	3578	
5°	3568	3570	3560	3576	3580	339
15°	3450	3451	3445	3456	3462	974
25°	3203	3205	3195	3205	3207	1476
35°	2830	2831	2823	2819	2812	1767
45°	2282	2273	2256	2238	2240	1747
55°	1507	1520	1501	1476	1471	1352
65°	850	852	845	831	829	856
75°	438	432	427	430	419	465
85°	106	108	105	106	101	126
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3578.5	3578.5	3578.5	3578.5	3578.5
2.5°	3577.1	3578.5	3568.3	3585.1	3588.8
5°	3568.3	3569.7	3560.4	3575.7	3579.9
7.5°	3550.1	3552.9	3544.1	3559.4	3563.2
10°	3524.5	3527.3	3518.4	3533.8	3537.5
12.5°	3492.8	3493.7	3486.3	3500.3	3504.0
15°	3450.4	3451.3	3445.3	3456.4	3461.6
17.5°	3401.5	3402.9	3394.0	3408.0	3410.3
20°	3342.7	3343.7	3338.5	3350.2	3351.6
22.5°	3277.0	3279.8	3271.9	3282.2	3283.6
25°	3202.9	3205.3	3195.0	3205.3	3206.7
27.5°	3124.6	3125.6	3116.7	3124.6	3123.2
30°	3033.3	3041.2	3029.6	3026.8	3025.8
32.5°	2938.7	2939.6	2928.5	2925.7	2930.8
35°	2829.7	2830.6	2823.1	2819.4	2811.5
37.5°	2710.4	2710.4	2695.9	2693.6	2692.2
40°	2579.4	2578.0	2569.2	2560.3	2551.0
42.5°	2436.8	2439.6	2421.4	2406.0	2403.7
45°	2281.6	2272.8	2256.0	2238.3	2239.7
47.5°	2098.5	2100.8	2078.0	2063.5	2059.8
50°	1908.3	1908.3	1886.9	1871.5	1863.6
52.5°	1709.8	1711.2	1690.7	1670.2	1666.0
55°	1507.1	1519.7	1500.6	1476.3	1471.2
57.5°	1317.4	1327.7	1309.5	1283.9	1282.5
60°	1141.7	1142.7	1137.5	1113.3	1106.8
62.5°	991.7	985.2	982.4	969.8	961.9
65°	850.5	851.9	845.4	830.9	828.6
67.5°	736.3	734.9	723.3	714.4	709.3
70°	624.5	620.7	615.6	608.2	603.0
72.5°	524.7	524.7	520.5	518.2	509.4
75°	437.6	432.5	427.3	429.7	419.4
77.5°	354.2	349.0	344.9	339.7	337.4
80°	268.0	262.8	264.2	256.3	255.4
82.5°	185.9	185.9	183.6	177.1	178.5
85°	106.3	107.6	105.3	106.3	101.1
87.5°	38.7	39.6	42.4	39.6	39.6
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)