

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: P1050497

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

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050497
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-90-L840-UNV-STD-W
Description: 9000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

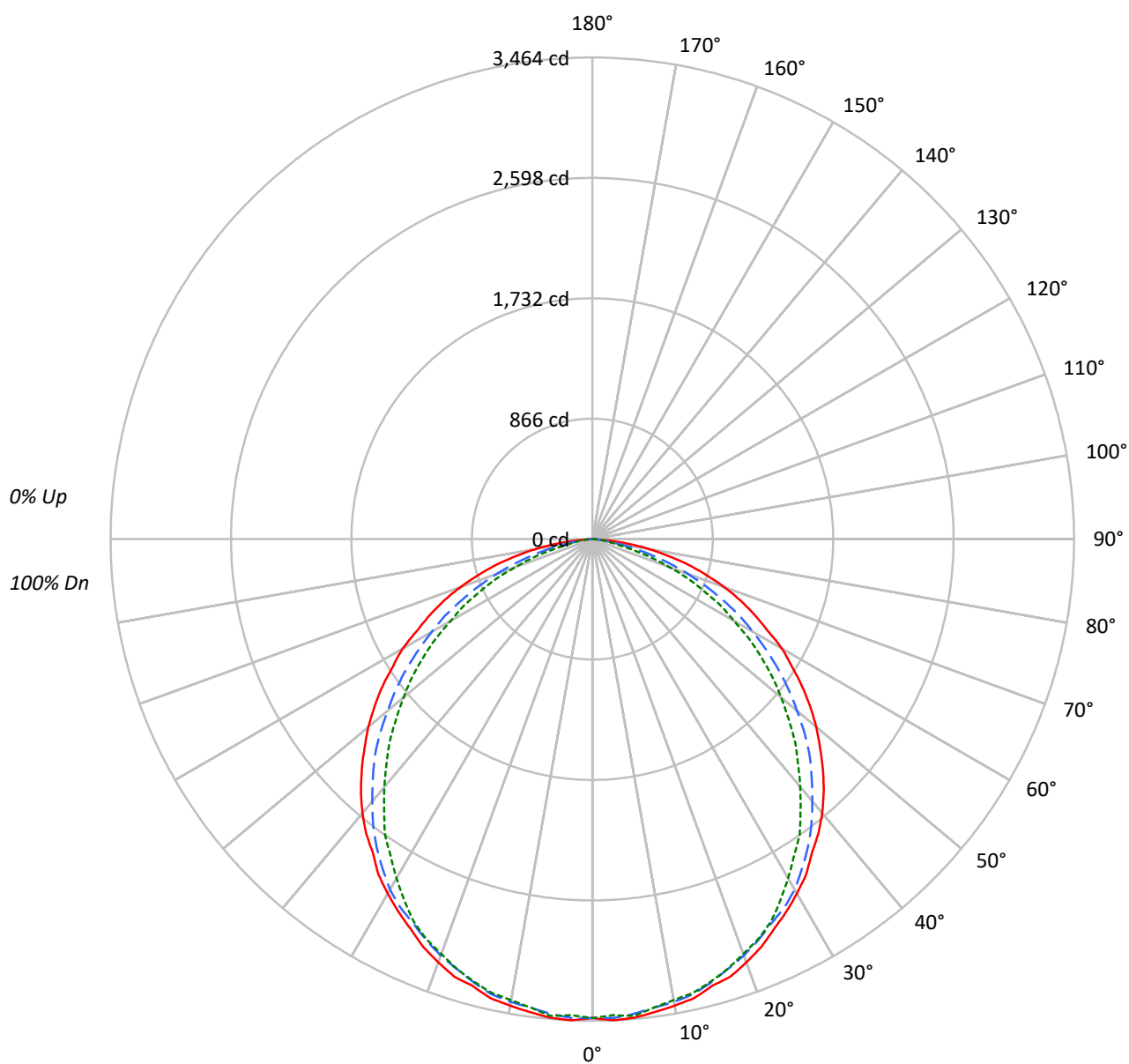
Lumens per Lamp: N/A
Luminaire Lumens: 9171.7 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	4633	4633	4633
5°	4667	4628	4648
10°	4654	4618	4598
15°	4634	4596	4588
20°	4637	4563	4546
25°	4591	4524	4509
30°	4572	4521	4375
35°	4521	4440	4268
40°	4517	4322	4085
45°	4460	4211	3922
50°	4400	4022	3709
55°	4315	3834	3483
60°	4238	3587	3162
65°	4094	3291	2827
70°	3961	2864	2307
75°	3721	2260	1589
80°	3226	1367	953
85°	2154	982	919

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4460 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.4	3.6
10°-20°	934.0	10.2
20°-30°	1410.8	15.4
30°-40°	1677.4	18.3
40°-50°	1701.2	18.5
50°-60°	1477.2	16.1
60°-70°	1048.7	11.4
70°-80°	501.1	5.5
80°-90°	95.0	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°	2671.1	29.1
0°-40°	4348.5	47.4
0°-60°	7526.9	82.1
0°-90°	9171.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9171.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3443	3443	3443	3443	3443	
5°	3456	3443	3427	3435	3441	328
15°	3326	3335	3300	3296	3294	942
25°	3093	3088	3048	3060	3037	1428
35°	2752	2748	2703	2611	2598	1729
45°	2344	2324	2213	2096	2061	1808
55°	1840	1784	1634	1538	1485	1644
65°	1286	1190	1034	923	888	1274
75°	716	584	435	344	306	751
85°	140	74	64	62	60	176
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3443.3	3443.3	3443.3	3443.3	3443.3
2.5°	3463.8	3451.5	3447.4	3461.7	3426.9
5°	3455.6	3443.3	3426.9	3435.1	3441.2
7.5°	3431.0	3420.7	3398.2	3416.6	3398.2
10°	3406.4	3396.1	3379.7	3385.9	3365.3
12.5°	3381.7	3357.1	3353.0	3357.1	3342.8
15°	3326.4	3334.6	3299.7	3295.6	3293.6
17.5°	3299.7	3279.2	3242.3	3244.3	3240.2
20°	3238.2	3213.6	3186.9	3182.8	3174.6
22.5°	3174.6	3145.9	3121.3	3133.6	3115.1
25°	3092.6	3088.5	3047.5	3059.8	3037.2
27.5°	3020.8	3006.5	2988.0	2961.3	2928.5
30°	2942.9	2928.5	2910.1	2840.3	2815.7
32.5°	2860.8	2844.4	2807.5	2725.5	2698.8
35°	2752.2	2748.1	2702.9	2610.7	2598.3
37.5°	2670.1	2625.0	2588.1	2493.8	2458.9
40°	2571.7	2547.1	2460.9	2370.7	2325.6
42.5°	2463.0	2434.3	2335.8	2239.5	2190.2
45°	2344.1	2323.5	2212.8	2095.9	2061.0
47.5°	2221.0	2202.5	2071.3	1958.5	1913.4
50°	2102.1	2079.5	1921.6	1812.9	1771.9
52.5°	1972.9	1935.9	1780.1	1673.4	1634.5
55°	1839.6	1784.2	1634.5	1538.1	1484.8
57.5°	1698.1	1646.8	1480.7	1380.2	1337.1
60°	1575.0	1503.2	1333.0	1230.5	1175.1
62.5°	1417.1	1355.6	1193.6	1072.6	1045.9
65°	1285.8	1189.5	1033.6	922.9	888.0
67.5°	1152.5	1039.7	881.8	769.0	750.6
70°	1006.9	890.0	728.0	617.3	586.5
72.5°	859.3	744.4	586.5	469.6	451.2
75°	715.7	584.5	434.8	344.5	305.6
77.5°	559.9	440.9	305.6	211.2	186.6
80°	416.3	297.4	176.4	125.1	123.0
82.5°	272.8	172.3	94.3	96.4	92.3
85°	139.5	73.8	63.6	61.5	59.5
87.5°	26.7	28.7	30.8	30.8	30.8
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)