

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: P1050728

Luminaire Tested: 24PTR-90-PL1-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050728
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737719)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-90-PL1-L840-UNV-STD-W
Description: 9000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

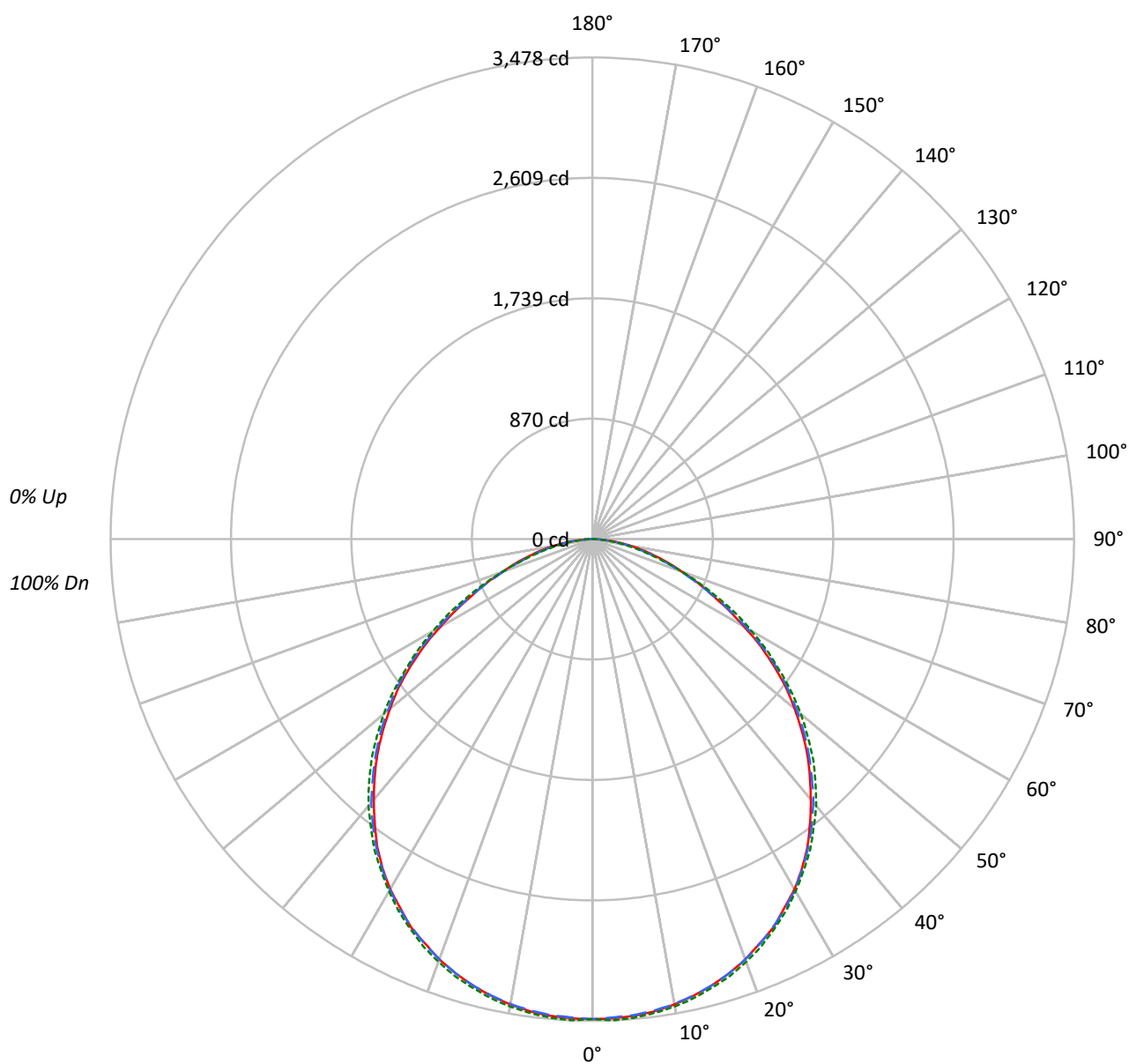
Lumens per Lamp: N/A
Luminaire Lumens: 9136.4 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	94	92	90	91	89	87	87	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	74	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	63	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	55	55	52
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	48	48	46
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	42	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	37	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	34	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	30	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4664	4664	4664
5°	4668	4659	4685
10°	4662	4656	4683
15°	4647	4645	4669
20°	4624	4624	4650
25°	4593	4587	4612
30°	4535	4541	4563
35°	4448	4465	4501
40°	4310	4360	4416
45°	4176	4210	4291
50°	3992	4035	4115
55°	3760	3820	3865
60°	3410	3483	3570
65°	3029	3062	3185
70°	2708	2653	2719
75°	2443	2302	2256
80°	2220	2061	1829
85°	1880	1707	1470

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4291 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.8	3.6
10°-20°	943.0	10.3
20°-30°	1426.4	15.6
30°-40°	1700.2	18.6
40°-50°	1709.6	18.7
50°-60°	1451.0	15.9
60°-70°	966.1	10.6
70°-80°	482.4	5.3
80°-90°	129.0	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°	2698.1	29.5
0°-40°	4398.3	48.1
0°-60°	7558.9	82.7
0°-90°	9136.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9136.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3466	3466	3466	3466	3466	
5°	3456	3457	3449	3465	3468	328
15°	3336	3340	3335	3349	3352	941
25°	3094	3094	3090	3104	3106	1422
35°	2708	2711	2718	2738	2740	1689
45°	2194	2198	2213	2242	2255	1688
55°	1603	1614	1628	1644	1648	1428
65°	951	959	962	976	1000	954
75°	470	463	443	433	434	505
85°	122	120	111	104	95	141
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3466.1	3466.1	3466.1	3466.1	3466.1
2.5°	3463.3	3466.1	3456.7	3473.5	3477.7
5°	3455.8	3456.7	3449.3	3464.7	3468.4
7.5°	3439.0	3440.4	3432.5	3449.3	3451.6
10°	3412.0	3414.8	3408.2	3423.6	3427.4
12.5°	3377.4	3381.2	3374.6	3391.4	3394.2
15°	3336.4	3340.1	3335.0	3349.0	3351.8
17.5°	3286.0	3288.8	3286.0	3299.0	3306.5
20°	3229.5	3229.5	3229.5	3241.2	3247.7
22.5°	3159.0	3165.6	3162.8	3178.2	3184.7
25°	3093.7	3093.7	3089.5	3104.0	3106.3
27.5°	3002.3	3012.5	3011.6	3024.2	3027.0
30°	2918.7	2921.5	2922.9	2931.8	2936.9
32.5°	2817.5	2819.8	2824.0	2836.6	2838.0
35°	2708.3	2711.1	2718.5	2737.7	2740.5
37.5°	2581.4	2595.4	2601.9	2622.4	2624.8
40°	2454.0	2462.8	2482.4	2503.9	2514.2
42.5°	2324.3	2334.5	2346.2	2375.6	2384.9
45°	2194.5	2198.3	2212.7	2242.1	2255.2
47.5°	2050.8	2062.5	2075.1	2100.7	2108.7
50°	1907.1	1919.7	1927.6	1950.5	1965.9
52.5°	1762.0	1773.6	1782.5	1796.5	1811.9
55°	1602.9	1614.1	1628.5	1643.9	1647.6
57.5°	1440.9	1453.5	1462.9	1479.2	1496.0
60°	1267.3	1281.8	1294.4	1309.8	1326.6
62.5°	1105.9	1112.0	1125.0	1150.7	1175.0
65°	951.4	959.4	961.7	976.2	1000.4
67.5°	823.1	823.1	811.5	816.6	843.7
70°	688.3	683.1	674.3	669.1	691.1
72.5°	579.1	572.5	553.4	544.5	556.2
75°	469.9	463.4	442.8	432.6	434.0
77.5°	377.5	367.2	350.4	332.7	329.0
80°	286.5	282.3	266.0	249.2	236.1
82.5°	203.0	194.1	184.8	174.5	164.3
85°	121.8	119.5	110.6	104.1	95.2
87.5°	49.9	49.9	47.6	44.8	42.5
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)