

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: P1050805

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

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050805
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2409-224-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-90-PLG-L840-UNV-STD-W
Description: 9000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

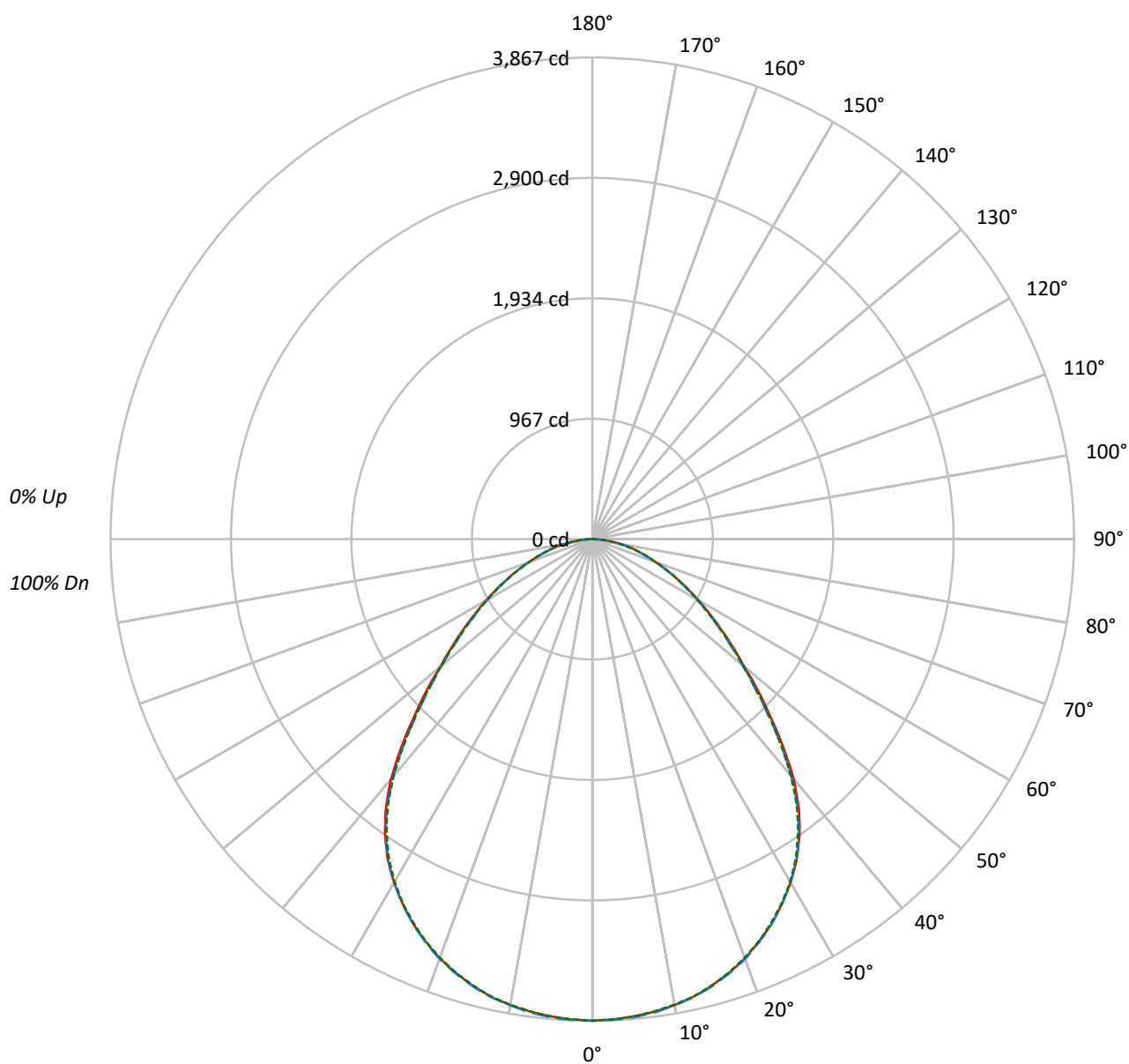
Lumens per Lamp: N/A
Luminaire Lumens: 8713.2 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86	84	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74	72	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	69	66	64	62	64
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56	54	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49	47	49
6	74	61	53	47	72	60	52	47	58	51	46	57	51	46	55	50	45	43	41	43
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39	37	39
8	64	51	43	38	62	51	43	38	49	42	37	48	42	37	47	41	37	35	33	35
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32	30	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29	27	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5203	5203	5203
5°	5193	5204	5197
10°	5189	5193	5186
15°	5168	5176	5165
20°	5128	5136	5120
25°	5056	5060	5044
30°	4946	4946	4933
35°	4765	4751	4729
40°	4415	4367	4353
45°	3859	3796	3812
50°	3332	3292	3309
55°	2961	2916	2923
60°	2651	2614	2614
65°	2377	2359	2368
70°	2138	2116	2138
75°	1983	1955	1983
80°	1850	1829	1765
85°	1567	1567	1399

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3859 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.1	4.2
10°-20°	1047.6	12.0
20°-30°	1567.4	18.0
30°-40°	1795.8	20.6
40°-50°	1553.2	17.8
50°-60°	1124.1	12.9
60°-70°	740.4	8.5
70°-80°	403.0	4.6
80°-90°	115.5	1.3
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°	2981.1	34.2
0°-40°	4776.9	54.8
0°-60°	7454.2	85.6
0°-90°	8713.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8713.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3867	3867	3867	3867	3867	
5°	3845	3853	3853	3853	3848	366
15°	3710	3713	3716	3721	3708	1047
25°	3406	3406	3408	3411	3398	1566
35°	2901	2898	2893	2890	2879	1802
45°	2028	2023	1995	1992	2003	1570
55°	1262	1257	1243	1235	1246	1136
65°	746	752	741	736	744	745
75°	382	382	376	376	382	406
85°	102	102	102	104	91	118
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3866.9	3866.9	3866.9	3866.9	3866.9
2.5°	3858.6	3866.9	3864.1	3866.9	3858.6
5°	3844.9	3853.1	3853.1	3853.1	3847.6
7.5°	3825.7	3831.2	3833.9	3836.7	3822.9
10°	3798.2	3803.7	3801.0	3806.5	3795.5
12.5°	3762.6	3762.6	3765.3	3770.8	3759.8
15°	3710.4	3713.2	3715.9	3721.4	3707.7
17.5°	3650.0	3652.8	3655.5	3658.3	3647.3
20°	3581.4	3581.4	3586.9	3589.7	3575.9
22.5°	3496.4	3496.4	3501.8	3510.1	3493.6
25°	3405.8	3405.8	3408.5	3411.3	3397.6
27.5°	3298.8	3298.8	3301.5	3309.7	3293.3
30°	3183.5	3180.8	3183.5	3186.2	3175.3
32.5°	3054.5	3051.8	3049.0	3051.8	3038.0
35°	2900.8	2898.1	2892.6	2889.8	2878.9
37.5°	2722.4	2717.0	2706.0	2706.0	2695.0
40°	2513.9	2500.1	2486.4	2480.9	2478.2
42.5°	2272.4	2261.4	2242.2	2239.4	2239.4
45°	2028.1	2022.6	1995.2	1992.4	2003.4
47.5°	1808.6	1794.8	1770.1	1764.6	1781.1
50°	1591.7	1594.5	1572.5	1564.3	1580.8
52.5°	1421.6	1416.1	1396.9	1391.4	1405.1
55°	1262.4	1256.9	1243.2	1235.0	1246.0
57.5°	1117.0	1114.2	1100.5	1097.8	1103.2
60°	985.2	982.5	971.5	968.8	971.5
62.5°	861.7	861.7	850.8	845.3	853.5
65°	746.5	752.0	741.0	735.5	743.7
67.5°	642.2	647.7	636.7	631.2	642.2
70°	543.4	548.9	537.9	532.4	543.4
72.5°	458.3	461.1	452.8	450.1	463.8
75°	381.5	381.5	376.0	376.0	381.5
77.5°	310.1	307.4	304.6	304.6	299.1
80°	238.8	236.0	236.0	236.0	227.8
82.5°	170.2	164.7	167.4	170.2	156.4
85°	101.5	101.5	101.5	104.3	90.6
87.5°	41.2	41.2	38.4	41.2	35.7
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)