

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: P1050970

Luminaire Tested: 24PTR-90-PR1-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050970
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-L850-UNV-STD-W
Description: 9000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND RIPPLE LENS

Light Source:
Ballast/Driver: -

Summary

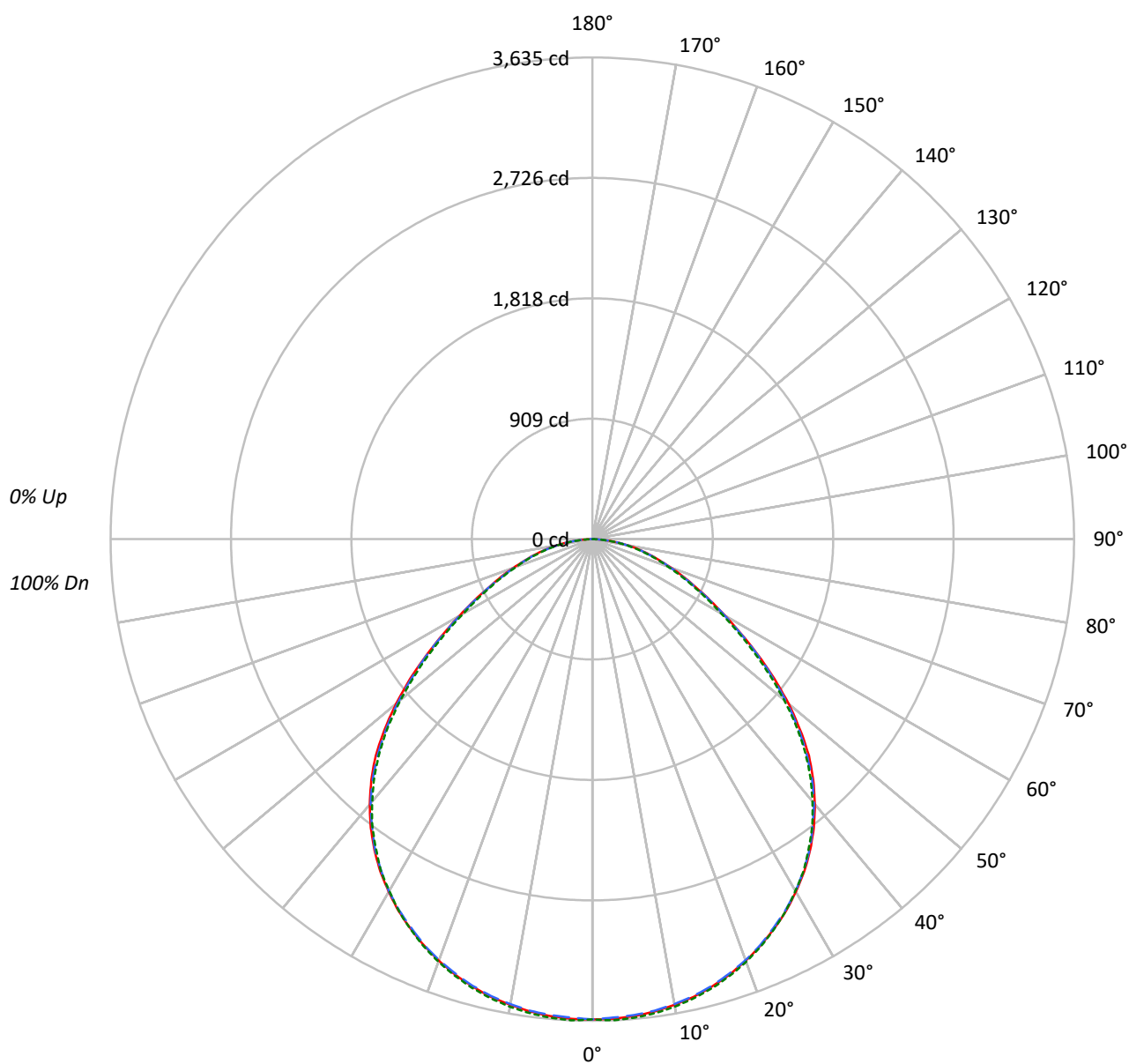
Lumens per Lamp: N/A
Luminaire Lumens: 9166.5 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1050970

CATALOG NUMBER: 24PTR-90-PR1-L850-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	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°	4877	4877	4877
5°	4881	4871	4897
10°	4877	4869	4895
15°	4868	4861	4884
20°	4848	4842	4861
25°	4816	4804	4822
30°	4773	4767	4762
35°	4708	4697	4677
40°	4589	4571	4538
45°	4397	4348	4317
50°	4046	4001	3951
55°	3581	3565	3495
60°	3112	3101	3017
65°	2742	2726	2672
70°	2488	2453	2403
75°	2304	2250	2208
80°	2103	2073	2005
85°	1661	1647	1581

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4397 cd/sqm

TEST NUMBER: P1050970

CATALOG NUMBER: 24PTR-90-PR1-L850-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.8	3.8
10°-20°	986.8	10.8
20°-30°	1495.0	16.3
30°-40°	1784.7	19.5
40°-50°	1755.1	19.1
50°-60°	1356.5	14.8
60°-70°	855.4	9.3
70°-80°	462.7	5.0
80°-90°	126.4	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°	2825.7	30.8
0°-40°	4610.4	50.3
0°-60°	7722.1	84.2
0°-90°	9166.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9166.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3625	3625	3625	3625	3625	
5°	3614	3616	3606	3622	3626	344
15°	3495	3496	3490	3501	3506	986
25°	3244	3246	3236	3246	3248	1495
35°	2866	2867	2859	2856	2848	1789
45°	2311	2302	2285	2267	2268	1770
55°	1526	1539	1520	1495	1490	1370
65°	861	863	856	842	839	867
75°	443	438	433	435	425	471
85°	108	109	107	108	102	128
90°	0	0	0	0	0	

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CATALOG NUMBER: 24PTR-90-PR1-L850-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3624.6	3624.6	3624.6	3624.6	3624.6
2.5°	3623.2	3624.6	3614.2	3631.2	3635.0
5°	3614.2	3615.6	3606.2	3621.7	3626.0
7.5°	3595.8	3598.6	3589.6	3605.2	3609.0
10°	3569.8	3572.7	3563.7	3579.3	3583.0
12.5°	3537.7	3538.7	3531.1	3545.3	3549.0
15°	3494.8	3495.7	3489.6	3500.9	3506.1
17.5°	3445.2	3446.6	3437.7	3451.8	3454.2
20°	3385.7	3386.7	3381.5	3393.3	3394.7
22.5°	3319.2	3322.0	3314.0	3324.4	3325.8
25°	3244.1	3246.5	3236.1	3246.5	3247.9
27.5°	3164.8	3165.8	3156.8	3164.8	3163.4
30°	3072.3	3080.3	3068.5	3065.7	3064.8
32.5°	2976.5	2977.4	2966.1	2963.3	2968.5
35°	2866.1	2867.0	2859.4	2855.7	2847.6
37.5°	2745.2	2745.2	2730.6	2728.2	2726.8
40°	2612.6	2611.2	2602.2	2593.2	2583.8
42.5°	2468.1	2471.0	2452.6	2437.0	2434.6
45°	2311.0	2302.0	2285.0	2267.1	2268.5
47.5°	2125.5	2127.8	2104.7	2090.1	2086.3
50°	1932.9	1932.9	1911.2	1895.6	1887.6
52.5°	1731.8	1733.2	1712.5	1691.7	1687.4
55°	1526.5	1539.2	1519.9	1495.3	1490.1
57.5°	1334.4	1344.8	1326.4	1300.4	1299.0
60°	1156.4	1157.4	1152.2	1127.6	1121.0
62.5°	1004.4	997.8	995.0	982.3	974.2
65°	861.4	862.8	856.2	841.6	839.2
67.5°	745.8	744.4	732.6	723.6	718.4
70°	632.5	628.7	623.5	616.0	610.8
72.5°	531.5	531.5	527.2	524.9	515.9
75°	443.2	438.0	432.8	435.2	424.8
77.5°	358.7	353.5	349.3	344.1	341.7
80°	271.4	266.2	267.6	259.6	258.7
82.5°	188.3	188.3	186.0	179.4	180.8
85°	107.6	109.0	106.7	107.6	102.4
87.5°	39.2	40.1	43.0	40.1	40.1
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)