

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: P1050585

Luminaire Tested: 24PTR-90-PB1-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050585
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737703)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-90-PB1-L850-UNV-STD-W
Description: 9000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

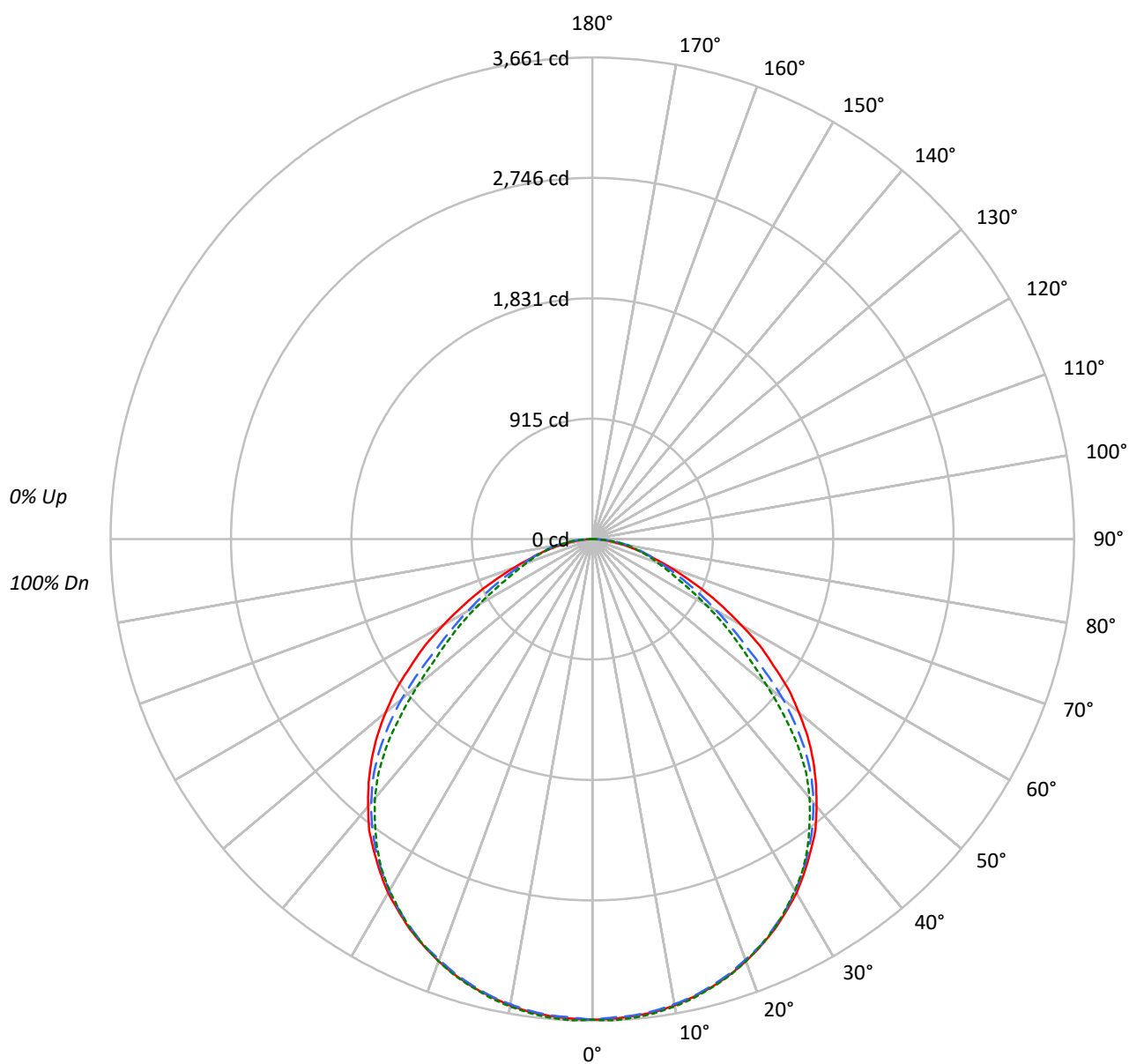
Lumens per Lamp: N/A
Luminaire Lumens: 9107.3 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	93	90	91	89	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64	62		
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54		
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47		
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42		
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37		
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	33		
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30		
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4914	4914	4914
5°	4915	4909	4933
10°	4917	4904	4929
15°	4906	4894	4912
20°	4889	4870	4889
25°	4862	4842	4855
30°	4823	4795	4788
35°	4752	4716	4686
40°	4656	4593	4513
45°	4513	4368	4188
50°	4289	3959	3620
55°	3952	3362	3119
60°	3518	2938	2672
65°	3018	2547	2275
70°	2492	2245	2085
75°	2101	2148	2033
80°	1776	2193	2091
85°	1391	2220	1944

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4513 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.3	3.8
10°-20°	993.7	10.9
20°-30°	1505.2	16.5
30°-40°	1793.6	19.7
40°-50°	1754.0	19.3
50°-60°	1326.7	14.6
60°-70°	815.1	8.9
70°-80°	434.2	4.8
80°-90°	138.6	1.5
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°	2845.2	31.2
0°-40°	4638.9	50.9
0°-60°	7719.5	84.8
0°-90°	9107.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9107.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3652	3652	3652	3652	3652	
5°	3639	3643	3634	3648	3652	346
15°	3522	3526	3513	3526	3526	994
25°	3275	3270	3261	3266	3270	1508
35°	2893	2889	2871	2857	2853	1810
45°	2372	2359	2296	2219	2201	1825
55°	1685	1599	1433	1352	1330	1509
65°	948	872	800	737	714	943
75°	404	409	413	400	391	433
85°	90	117	144	135	126	108
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3652.4	3652.4	3652.4	3652.4	3652.4
2.5°	3648.1	3652.4	3638.7	3657.1	3661.3
5°	3638.7	3643.4	3634.4	3648.1	3652.4
7.5°	3625.5	3625.5	3616.5	3629.7	3634.4
10°	3598.6	3598.6	3589.6	3602.8	3607.6
12.5°	3562.7	3562.7	3558.0	3567.0	3571.7
15°	3522.2	3526.4	3513.2	3526.4	3526.4
17.5°	3472.7	3468.4	3463.7	3472.7	3477.4
20°	3414.2	3414.2	3401.0	3409.9	3414.2
22.5°	3346.7	3346.7	3342.5	3346.7	3342.5
25°	3275.0	3270.3	3261.4	3266.1	3270.3
27.5°	3189.7	3189.7	3180.7	3180.7	3176.0
30°	3104.3	3099.6	3086.4	3077.4	3081.7
32.5°	3001.0	2996.3	2983.1	2974.1	2978.4
35°	2893.0	2888.8	2870.9	2857.2	2852.9
37.5°	2785.5	2771.8	2749.2	2731.2	2713.3
40°	2650.6	2636.9	2614.8	2574.2	2569.5
42.5°	2515.7	2502.5	2466.2	2417.1	2403.5
45°	2371.9	2358.7	2295.5	2219.1	2201.1
47.5°	2219.1	2196.9	2097.8	2003.5	1967.7
50°	2048.8	2008.2	1891.3	1770.1	1729.5
52.5°	1882.3	1810.6	1657.8	1549.8	1509.7
55°	1684.7	1599.3	1433.3	1352.2	1329.5
57.5°	1509.7	1392.7	1257.9	1177.2	1159.3
60°	1307.4	1199.4	1091.8	1019.7	992.8
62.5°	1123.0	1028.6	939.0	875.8	844.7
65°	948.0	871.6	799.9	736.7	714.5
67.5°	777.3	736.7	678.2	629.2	615.5
70°	633.4	610.8	570.7	548.0	530.1
72.5°	503.2	512.2	485.3	476.4	462.7
75°	404.2	408.9	413.2	399.9	391.0
77.5°	305.6	327.8	345.7	336.7	327.8
80°	229.2	251.4	283.0	269.8	269.8
82.5°	157.1	184.4	211.3	202.3	197.6
85°	90.1	117.0	143.8	134.9	125.9
87.5°	35.8	58.5	62.7	62.7	58.5
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)