

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: P1050508

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

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050508
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-L850-UNV-STD-W
Description: 9000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

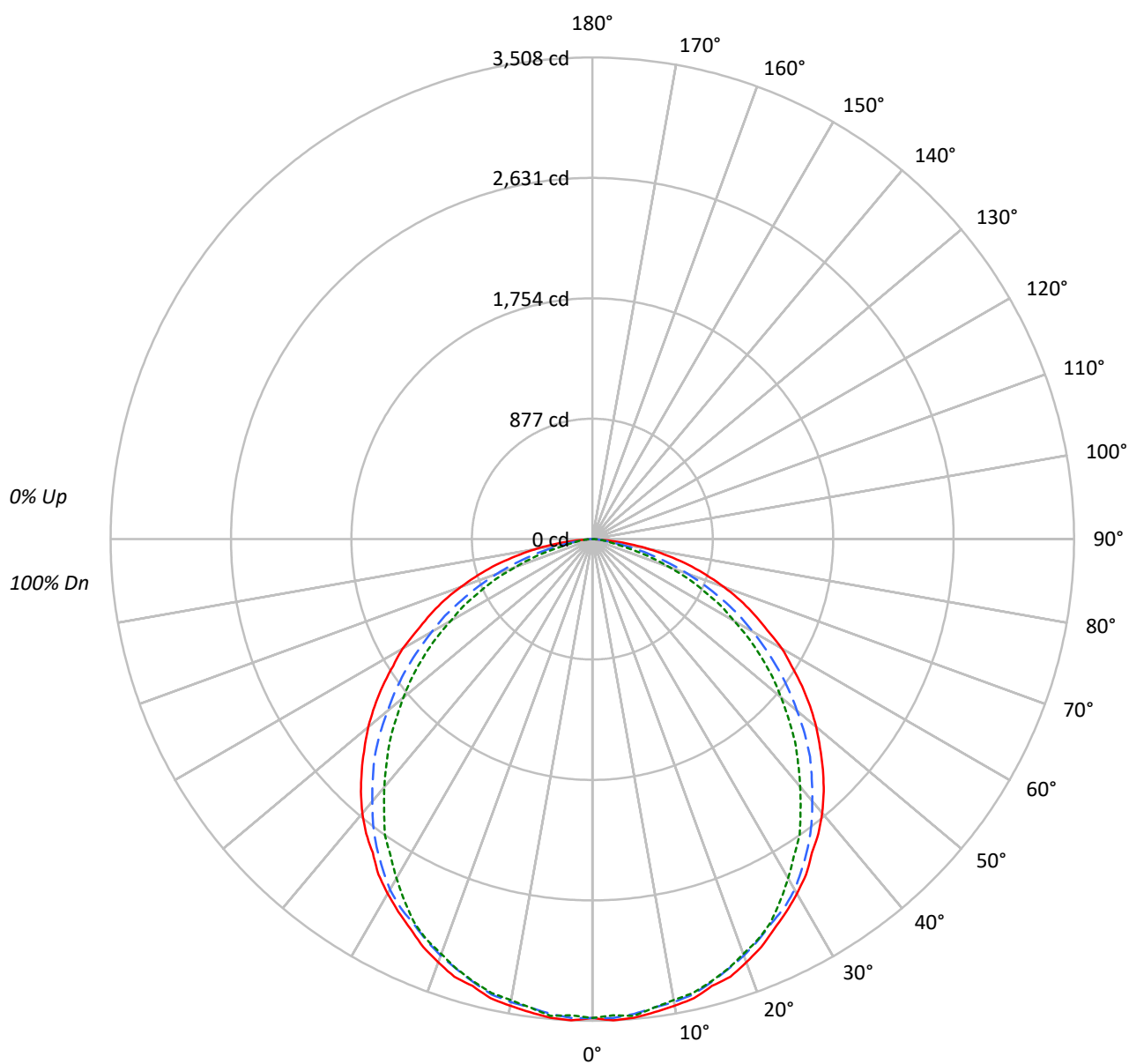
Lumens per Lamp: N/A
Luminaire Lumens: 9289.5 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1050508

CATALOG NUMBER: 24PTR-90-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	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°	4692	4692	4692
5°	4727	4688	4707
10°	4714	4677	4657
15°	4693	4655	4647
20°	4696	4622	4604
25°	4650	4582	4567
30°	4631	4579	4431
35°	4579	4497	4323
40°	4575	4378	4137
45°	4517	4265	3972
50°	4456	4074	3756
55°	4371	3883	3528
60°	4293	3633	3203
65°	4146	3333	2863
70°	4012	2901	2337
75°	3768	2289	1609
80°	3267	1384	965
85°	2180	994	929

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4517 cd/sqm

TEST NUMBER: P1050508

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.6	3.6
10°-20°	946.0	10.2
20°-30°	1428.9	15.4
30°-40°	1698.9	18.3
40°-50°	1723.0	18.5
50°-60°	1496.2	16.1
60°-70°	1062.1	11.4
70°-80°	507.6	5.5
80°-90°	96.2	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°	2705.4	29.1
0°-40°	4404.3	47.4
0°-60°	7623.6	82.1
0°-90°	9289.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9289.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3488	3488	3488	3488	3488	
5°	3500	3488	3471	3479	3485	332
15°	3369	3377	3342	3338	3336	954
25°	3132	3128	3087	3099	3076	1447
35°	2788	2783	2738	2644	2632	1752
45°	2374	2353	2241	2123	2088	1831
55°	1863	1807	1656	1558	1504	1665
65°	1302	1205	1047	935	899	1290
75°	725	592	440	349	310	760
85°	141	75	64	62	60	178
90°	0	0	0	0	0	

TEST NUMBER: P1050508

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3487.5	3487.5	3487.5	3487.5	3487.5
2.5°	3508.2	3495.8	3491.6	3506.2	3470.9
5°	3499.9	3487.5	3470.9	3479.2	3485.4
7.5°	3475.0	3464.6	3441.8	3460.5	3441.8
10°	3450.1	3439.7	3423.1	3429.3	3408.5
12.5°	3425.2	3400.2	3396.1	3400.2	3385.7
15°	3369.1	3377.4	3342.1	3337.9	3335.8
17.5°	3342.1	3321.3	3283.9	3286.0	3281.8
20°	3279.8	3254.8	3227.8	3223.7	3215.4
22.5°	3215.4	3186.3	3161.4	3173.8	3155.1
25°	3132.3	3128.1	3086.6	3099.1	3076.2
27.5°	3059.6	3045.0	3026.4	2999.4	2966.1
30°	2980.7	2966.1	2947.4	2876.8	2851.9
32.5°	2897.6	2881.0	2843.6	2760.5	2733.5
35°	2787.5	2783.3	2737.6	2644.2	2631.7
37.5°	2704.4	2658.7	2621.3	2525.8	2490.5
40°	2604.7	2579.8	2492.5	2401.1	2355.4
42.5°	2494.6	2465.5	2365.8	2268.2	2218.4
45°	2374.1	2353.4	2241.2	2122.8	2087.5
47.5°	2249.5	2230.8	2097.9	1983.6	1937.9
50°	2129.0	2106.2	1946.3	1836.2	1794.6
52.5°	1998.2	1960.8	1802.9	1694.9	1655.5
55°	1863.2	1807.1	1655.5	1557.8	1503.8
57.5°	1719.9	1667.9	1499.7	1397.9	1354.3
60°	1595.2	1522.5	1350.1	1246.3	1190.2
62.5°	1435.3	1373.0	1208.9	1086.3	1059.3
65°	1302.4	1204.7	1046.9	934.7	899.4
67.5°	1167.3	1053.1	893.2	778.9	760.2
70°	1019.9	901.5	737.4	625.2	594.1
72.5°	870.3	754.0	594.1	475.7	457.0
75°	724.9	592.0	440.3	349.0	309.5
77.5°	567.1	446.6	309.5	213.9	189.0
80°	421.7	301.2	178.6	126.7	124.6
82.5°	276.3	174.5	95.5	97.6	93.5
85°	141.2	74.8	64.4	62.3	60.2
87.5°	27.0	29.1	31.2	31.2	31.2
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)