

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: P1050816

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

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050816
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-L850-UNV-STD-W
Description: 9000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

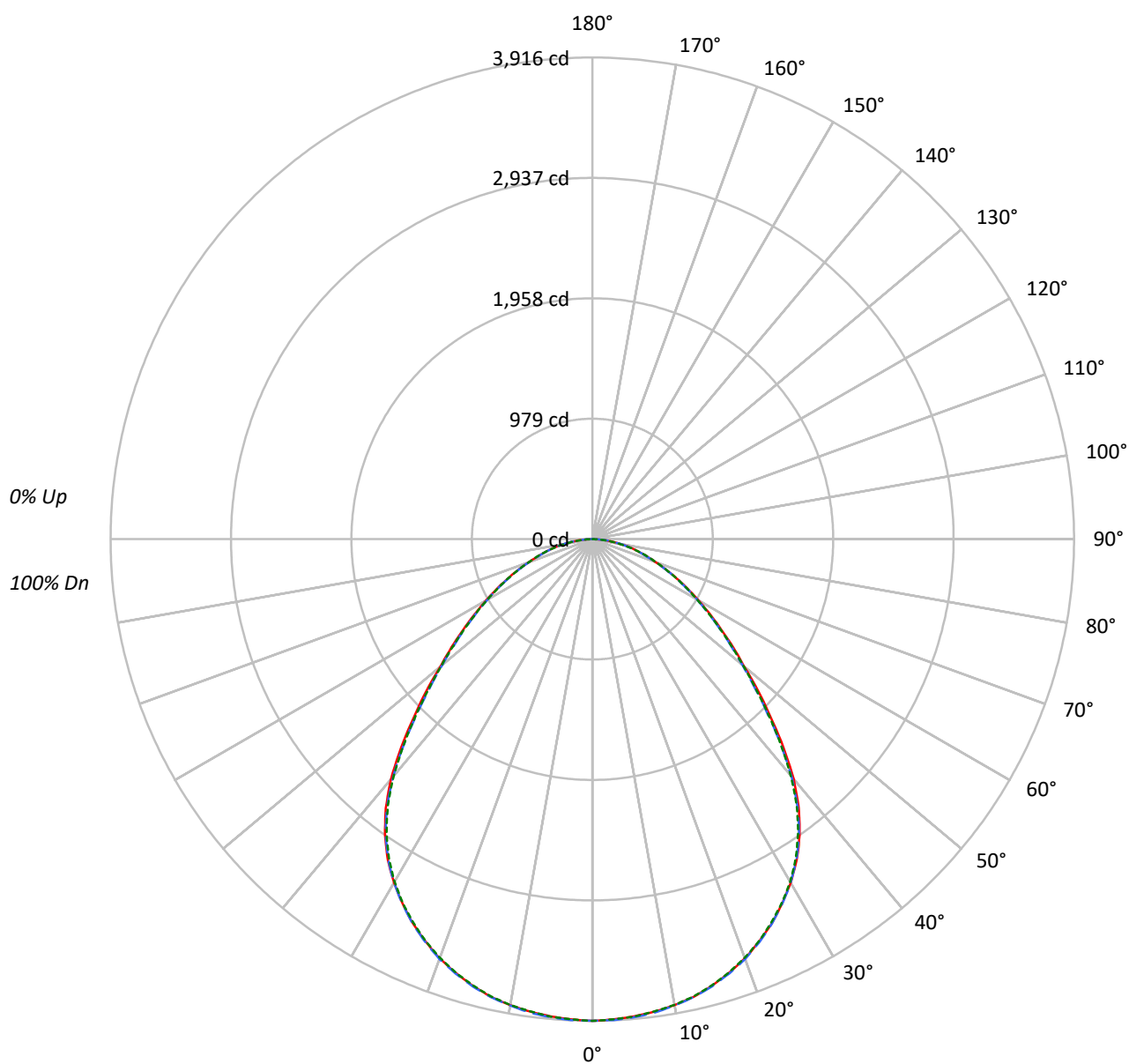
Lumens per Lamp: N/A
Luminaire Lumens: 8825.0 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	100		
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74		
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	69	66	64		
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56		
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49		
6	74	61	53	47	72	60	52	47	58	51	46	57	51	46	55	50	45	43		
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39		
8	64	51	43	38	62	51	43	38	49	42	37	48	42	37	47	41	37	35		
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32		
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5270	5270	5270
5°	5260	5271	5263
10°	5256	5260	5252
15°	5235	5243	5231
20°	5194	5202	5186
25°	5121	5125	5109
30°	5010	5010	4996
35°	4826	4812	4789
40°	4472	4423	4409
45°	3909	3845	3861
50°	3375	3334	3351
55°	2999	2954	2960
60°	2685	2648	2648
65°	2407	2389	2398
70°	2165	2143	2165
75°	2009	1980	2009
80°	1874	1852	1788
85°	1587	1587	1416

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3909 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.8	4.2
10°-20°	1061.0	12.0
20°-30°	1587.6	18.0
30°-40°	1818.9	20.6
40°-50°	1573.1	17.8
50°-60°	1138.5	12.9
60°-70°	749.9	8.5
70°-80°	408.2	4.6
80°-90°	117.0	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°	3019.4	34.2
0°-40°	4838.3	54.8
0°-60°	7549.9	85.6
0°-90°	8825.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8825.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3916	3916	3916	3916	3916	
5°	3894	3903	3903	3903	3897	370
15°	3758	3761	3764	3769	3755	1060
25°	3450	3450	3452	3455	3441	1587
35°	2938	2935	2930	2927	2916	1825
45°	2054	2049	2021	2018	2029	1591
55°	1279	1273	1259	1251	1262	1151
65°	756	762	750	745	753	755
75°	386	386	381	381	386	412
85°	103	103	103	106	92	119
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3916.5	3916.5	3916.5	3916.5	3916.5
2.5°	3908.2	3916.5	3913.7	3916.5	3908.2
5°	3894.3	3902.6	3902.6	3902.6	3897.0
7.5°	3874.8	3880.4	3883.1	3885.9	3872.0
10°	3847.0	3852.6	3849.8	3855.3	3844.2
12.5°	3810.9	3810.9	3813.6	3819.2	3808.1
15°	3758.1	3760.8	3763.6	3769.2	3755.3
17.5°	3696.9	3699.7	3702.5	3705.2	3694.1
20°	3627.4	3627.4	3633.0	3635.7	3621.9
22.5°	3541.2	3541.2	3546.8	3555.1	3538.5
25°	3449.5	3449.5	3452.3	3455.1	3441.2
27.5°	3341.1	3341.1	3343.9	3352.2	3335.5
30°	3224.4	3221.6	3224.4	3227.1	3216.0
32.5°	3093.7	3090.9	3088.2	3090.9	3077.0
35°	2938.1	2935.3	2929.7	2926.9	2915.8
37.5°	2757.4	2751.8	2740.7	2740.7	2729.6
40°	2546.1	2532.2	2518.3	2512.8	2510.0
42.5°	2301.5	2290.4	2271.0	2268.2	2268.2
45°	2054.1	2048.6	2020.8	2018.0	2029.1
47.5°	1831.8	1817.9	1792.9	1787.3	1804.0
50°	1612.2	1615.0	1592.7	1584.4	1601.1
52.5°	1439.8	1434.3	1414.8	1409.3	1423.2
55°	1278.6	1273.1	1259.2	1250.8	1261.9
57.5°	1131.3	1128.5	1114.6	1111.8	1117.4
60°	997.9	995.1	984.0	981.2	984.0
62.5°	872.8	872.8	861.7	856.1	864.5
65°	756.1	761.6	750.5	744.9	753.3
67.5°	650.4	656.0	644.9	639.3	650.4
70°	550.4	555.9	544.8	539.2	550.4
72.5°	464.2	467.0	458.6	455.9	469.8
75°	386.4	386.4	380.8	380.8	386.4
77.5°	314.1	311.3	308.5	308.5	303.0
80°	241.8	239.0	239.0	239.0	230.7
82.5°	172.3	166.8	169.6	172.3	158.4
85°	102.8	102.8	102.8	105.6	91.7
87.5°	41.7	41.7	38.9	41.7	36.1
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)