

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: P1050293

Luminaire Tested: PTR-14-80-PLG-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050293
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: PTR-14-80-PLG-L850-UNV-STD-W
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

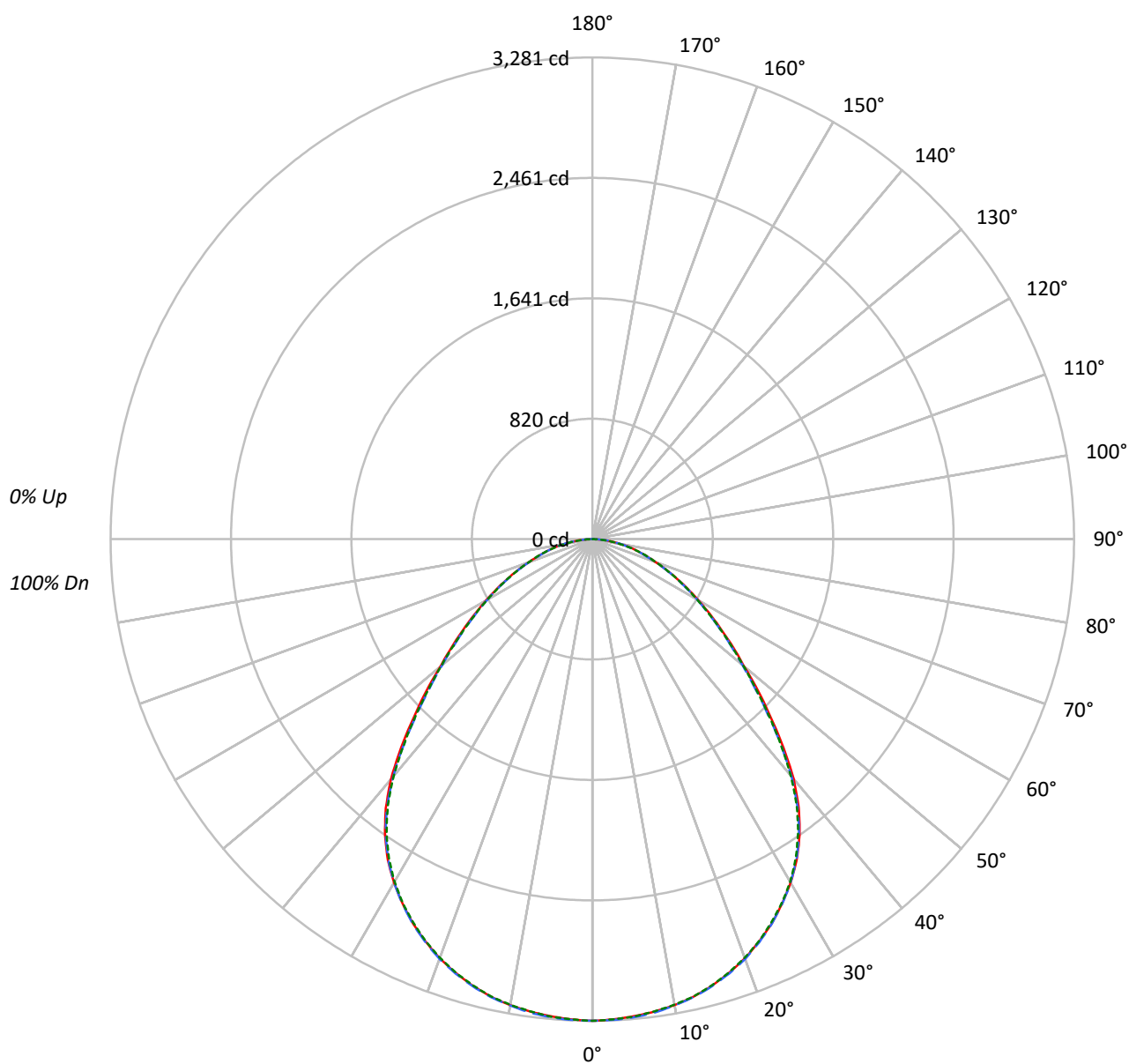
Lumens per Lamp: N/A
Luminaire Lumens: 7393.6 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 71
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°	8830	8830	8830
5°	8813	8832	8819
10°	8807	8813	8801
15°	8771	8784	8765
20°	8703	8716	8690
25°	8581	8588	8560
30°	8394	8394	8372
35°	8086	8063	8025
40°	7493	7412	7387
45°	6549	6443	6470
50°	5655	5586	5616
55°	5026	4949	4960
60°	4499	4437	4437
65°	4033	4004	4018
70°	3628	3591	3628
75°	3366	3317	3366
80°	3140	3104	2996
85°	2661	2661	2371

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6549 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.7	4.2
10°-20°	888.9	12.0
20°-30°	1330.1	18.0
30°-40°	1523.9	20.6
40°-50°	1318.0	17.8
50°-60°	953.8	12.9
60°-70°	628.3	8.5
70°-80°	342.0	4.6
80°-90°	98.0	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°	2529.6	34.2
0°-40°	4053.5	54.8
0°-60°	6325.3	85.6
0°-90°	7393.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7393.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3281	3281	3281	3281	3281	
5°	3263	3270	3270	3270	3265	310
15°	3148	3151	3153	3158	3146	888
25°	2890	2890	2892	2895	2883	1329
35°	2462	2459	2454	2452	2443	1529
45°	1721	1716	1693	1691	1700	1333
55°	1071	1067	1055	1048	1057	964
65°	633	638	629	624	631	632
75°	324	324	319	319	324	345
85°	86	86	86	88	77	100
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3281.2	3281.2	3281.2	3281.2	3281.2
2.5°	3274.2	3281.2	3278.9	3281.2	3274.2
5°	3262.6	3269.6	3269.6	3269.6	3264.9
7.5°	3246.3	3250.9	3253.3	3255.6	3244.0
10°	3223.0	3227.7	3225.3	3230.0	3220.7
12.5°	3192.7	3192.7	3195.1	3199.7	3190.4
15°	3148.5	3150.8	3153.1	3157.8	3146.2
17.5°	3097.2	3099.6	3101.9	3104.2	3094.9
20°	3039.0	3039.0	3043.7	3046.0	3034.4
22.5°	2966.8	2966.8	2971.5	2978.5	2964.5
25°	2890.0	2890.0	2892.3	2894.6	2883.0
27.5°	2799.2	2799.2	2801.5	2808.5	2794.5
30°	2701.4	2699.0	2701.4	2703.7	2694.4
32.5°	2591.9	2589.6	2587.2	2589.6	2577.9
35°	2461.5	2459.2	2454.5	2452.2	2442.9
37.5°	2310.1	2305.5	2296.2	2296.2	2286.8
40°	2133.1	2121.5	2109.9	2105.2	2102.9
42.5°	1928.2	1918.9	1902.6	1900.3	1900.3
45°	1721.0	1716.3	1693.0	1690.7	1700.0
47.5°	1534.7	1523.0	1502.0	1497.4	1511.4
50°	1350.7	1353.0	1334.4	1327.4	1341.4
52.5°	1206.3	1201.6	1185.3	1180.7	1192.3
55°	1071.2	1066.6	1054.9	1047.9	1057.3
57.5°	947.8	945.5	933.8	931.5	936.2
60°	836.0	833.7	824.4	822.1	824.4
62.5°	731.2	731.2	721.9	717.3	724.2
65°	633.4	638.1	628.8	624.1	631.1
67.5°	544.9	549.6	540.3	535.6	544.9
70°	461.1	465.8	456.4	451.8	461.1
72.5°	388.9	391.2	384.2	381.9	393.6
75°	323.7	323.7	319.0	319.0	323.7
77.5°	263.1	260.8	258.5	258.5	253.8
80°	202.6	200.3	200.3	200.3	193.3
82.5°	144.4	139.7	142.1	144.4	132.7
85°	86.2	86.2	86.2	88.5	76.8
87.5°	34.9	34.9	32.6	34.9	30.3
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)