

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: P1050960

Luminaire Tested: 24PTR-20-PR1-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050960
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-20-PR1-L850-UNV-STD-W
Description: 2000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND RIPPLE LENS

Light Source:
Ballast/Driver: -

Summary

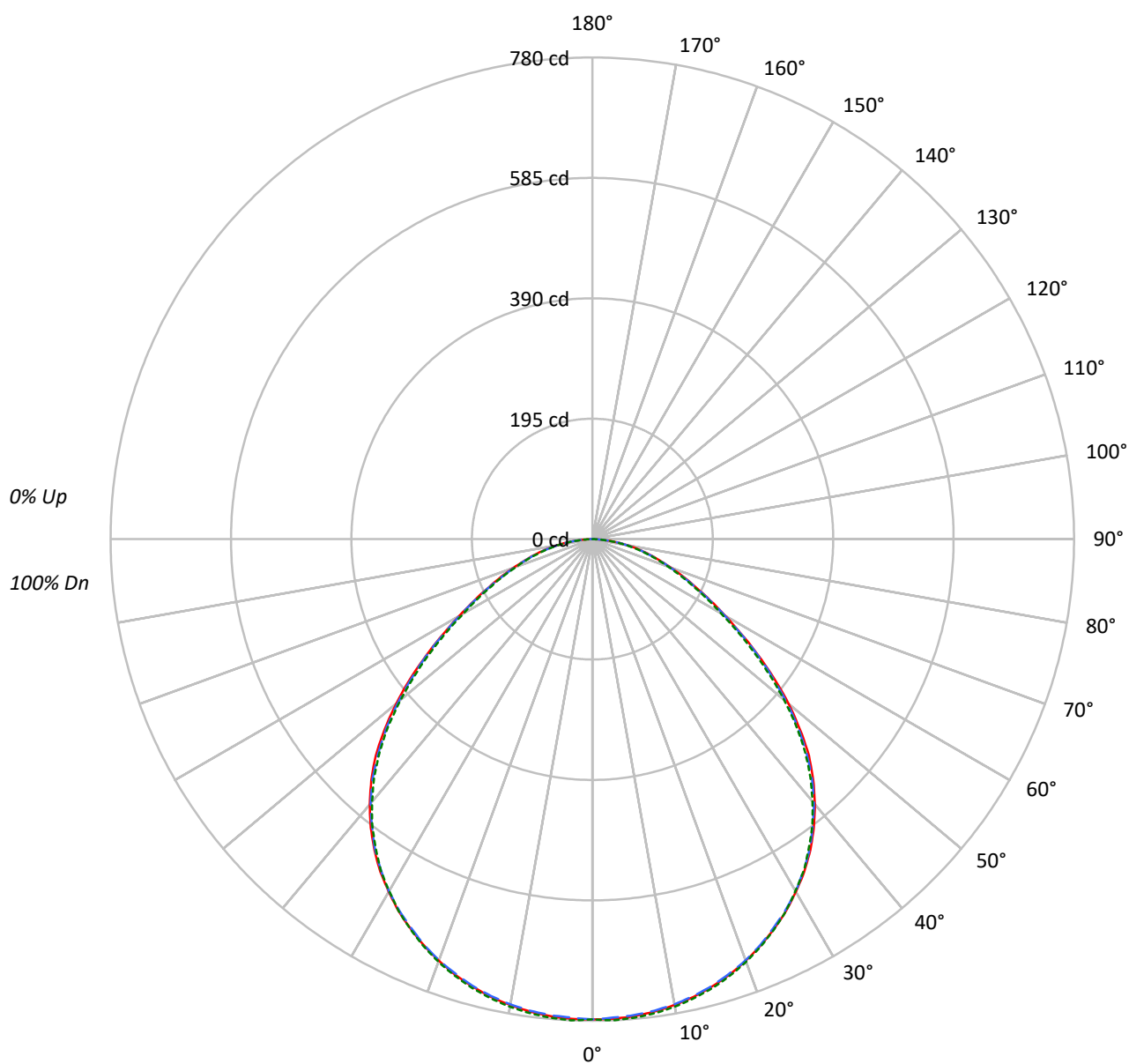
Lumens per Lamp: N/A
Luminaire Lumens: 1967.1 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 15
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: P1050960

CATALOG NUMBER: 24PTR-20-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°	1047	1047	1047
5°	1048	1045	1051
10°	1047	1045	1051
15°	1045	1043	1048
20°	1040	1039	1043
25°	1034	1031	1035
30°	1024	1023	1022
35°	1010	1008	1004
40°	985	981	974
45°	944	933	926
50°	868	858	848
55°	768	765	750
60°	668	665	647
65°	589	585	573
70°	534	526	516
75°	494	483	474
80°	451	445	430
85°	357	354	340

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 944 cd/sqm

TEST NUMBER: P1050960

CATALOG NUMBER: 24PTR-20-PR1-L850-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.8	3.8
10°-20°	211.8	10.8
20°-30°	320.8	16.3
30°-40°	383.0	19.5
40°-50°	376.7	19.1
50°-60°	291.1	14.8
60°-70°	183.6	9.3
70°-80°	99.3	5.0
80°-90°	27.1	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°	606.4	30.8
0°-40°	989.4	50.3
0°-60°	1657.2	84.2
0°-90°	1967.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1967.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	778	778	778	778	778	
5°	776	776	774	777	778	74
15°	750	750	749	751	752	212
25°	696	697	694	697	697	321
35°	615	615	614	613	611	384
45°	496	494	490	486	487	380
55°	328	330	326	321	320	294
65°	185	185	184	181	180	186
75°	95	94	93	93	91	101
85°	23	23	23	23	22	27
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	777.8	777.8	777.8	777.8	777.8
2.5°	777.5	777.8	775.6	779.3	780.1
5°	775.6	775.9	773.9	777.2	778.1
7.5°	771.7	772.3	770.3	773.7	774.5
10°	766.1	766.7	764.8	768.1	768.9
12.5°	759.2	759.4	757.8	760.8	761.6
15°	750.0	750.2	748.9	751.3	752.4
17.5°	739.4	739.7	737.7	740.8	741.3
20°	726.6	726.8	725.7	728.2	728.5
22.5°	712.3	712.9	711.2	713.4	713.7
25°	696.2	696.7	694.5	696.7	697.0
27.5°	679.2	679.4	677.5	679.2	678.9
30°	659.3	661.1	658.5	657.9	657.7
32.5°	638.8	639.0	636.5	635.9	637.0
35°	615.1	615.3	613.6	612.8	611.1
37.5°	589.1	589.1	586.0	585.5	585.2
40°	560.7	560.4	558.4	556.5	554.5
42.5°	529.7	530.3	526.3	523.0	522.5
45°	495.9	494.0	490.4	486.5	486.8
47.5°	456.1	456.6	451.7	448.5	447.7
50°	414.8	414.8	410.1	406.8	405.1
52.5°	371.7	372.0	367.5	363.0	362.1
55°	327.6	330.3	326.2	320.9	319.8
57.5°	286.4	288.6	284.6	279.1	278.8
60°	248.2	248.4	247.3	242.0	240.6
62.5°	215.6	214.1	213.5	210.8	209.1
65°	184.9	185.2	183.7	180.6	180.1
67.5°	160.0	159.7	157.2	155.3	154.2
70°	135.7	134.9	133.8	132.2	131.1
72.5°	114.1	114.1	113.1	112.6	110.7
75°	95.1	94.0	92.9	93.4	91.2
77.5°	77.0	75.9	75.0	73.8	73.3
80°	58.2	57.1	57.4	55.7	55.5
82.5°	40.4	40.4	39.9	38.5	38.8
85°	23.1	23.4	22.9	23.1	22.0
87.5°	8.4	8.6	9.2	8.6	8.6
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)