

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: P1050883

Luminaire Tested: 24PTR-20-PP3-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050883
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737727)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-20-PP3-L850-UNV-STD-W
Description: 2000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND PRISM LENS

Light Source:
Ballast/Driver: -

Summary

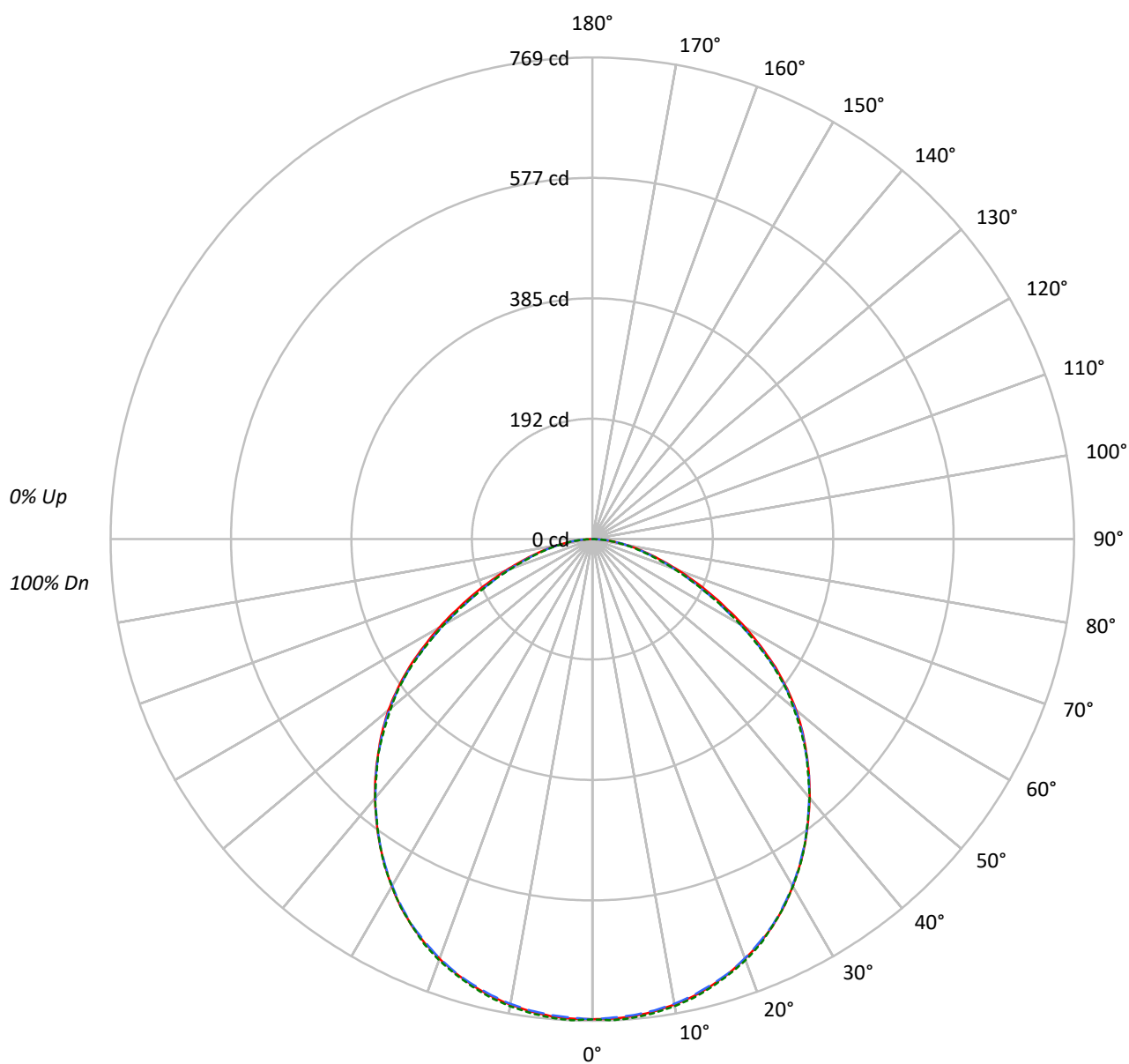
Lumens per Lamp: N/A
Luminaire Lumens: 1980.7 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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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	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	61		
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53		
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	52	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	42	40		
7	66	53	45	39	65	52	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32		
9	58	45	37	31	57	44	36	31	43	36	31	42	35	31	41	35	31	29		
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1031	1031	1031
5°	1032	1030	1036
10°	1031	1029	1034
15°	1028	1026	1030
20°	1021	1020	1024
25°	1012	1010	1011
30°	995	993	995
35°	973	972	973
40°	948	945	948
45°	920	917	918
50°	889	885	878
55°	837	827	825
60°	759	734	735
65°	667	634	633
70°	577	550	544
75°	499	480	470
80°	442	435	416
85°	366	378	357

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 923 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.7	3.7
10°-20°	208.3	10.5
20°-30°	313.6	15.8
30°-40°	370.1	18.7
40°-50°	372.2	18.8
50°-60°	314.2	15.9
60°-70°	201.8	10.2
70°-80°	100.4	5.1
80°-90°	27.5	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°	594.5	30.0
0°-40°	964.6	48.7
0°-60°	1651.1	83.4
0°-90°	1980.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1980.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	767	767	767	767	767	
5°	764	765	763	766	767	73
15°	738	738	736	740	740	208
25°	682	682	680	682	681	314
35°	592	593	592	592	592	370
45°	483	485	482	482	482	373
55°	357	356	353	351	352	317
65°	210	206	199	197	199	209
75°	96	95	92	92	90	104
85°	24	24	24	23	23	28
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	766.6	766.6	766.6	766.6	766.6
2.5°	766.3	766.6	764.6	768.2	768.8
5°	764.4	764.6	762.7	766.3	766.8
7.5°	760.4	760.7	759.0	762.4	763.0
10°	754.6	755.5	753.5	756.6	757.1
12.5°	747.4	747.7	745.7	749.3	749.9
15°	737.7	737.9	736.3	739.6	739.6
17.5°	726.5	726.8	725.7	728.5	728.2
20°	712.9	713.7	712.3	714.2	715.4
22.5°	698.2	698.5	696.7	699.3	700.4
25°	681.5	681.7	680.4	681.7	681.2
27.5°	662.0	662.5	660.5	662.0	662.3
30°	640.2	641.6	638.9	640.0	640.2
32.5°	616.9	617.7	615.8	616.1	617.5
35°	592.4	592.7	591.6	592.1	592.1
37.5°	566.0	567.1	565.4	566.2	565.1
40°	539.8	538.7	538.1	538.7	539.5
42.5°	512.2	512.5	511.7	511.1	509.8
45°	483.3	485.0	481.9	482.5	482.5
47.5°	455.0	455.2	453.6	451.9	450.7
50°	424.7	424.7	422.6	421.3	419.6
52.5°	391.5	391.0	388.8	387.4	388.2
55°	356.7	356.4	352.6	351.2	351.5
57.5°	318.6	319.2	313.3	311.9	311.9
60°	282.2	279.4	272.7	270.8	273.2
62.5°	244.0	240.6	233.5	233.5	235.4
65°	209.5	206.5	199.0	197.0	198.7
67.5°	177.2	174.4	167.5	166.4	166.9
70°	146.6	144.2	139.9	137.4	138.3
72.5°	120.2	118.0	115.2	113.2	112.1
75°	96.0	95.4	92.4	91.5	90.4
77.5°	75.9	75.7	73.2	72.1	71.0
80°	57.0	56.7	56.2	54.5	53.7
82.5°	40.6	40.6	40.3	38.9	38.1
85°	23.7	24.5	24.5	23.1	23.1
87.5°	9.5	10.0	9.5	9.5	9.2
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)