

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: P1050652

Luminaire Tested: 24PTR-20-PC3-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050652
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737711)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-20-PC3-L850-UNV-STD-W
Description: 2000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND PARAMID LENS

Light Source:
Ballast/Driver: -

Summary

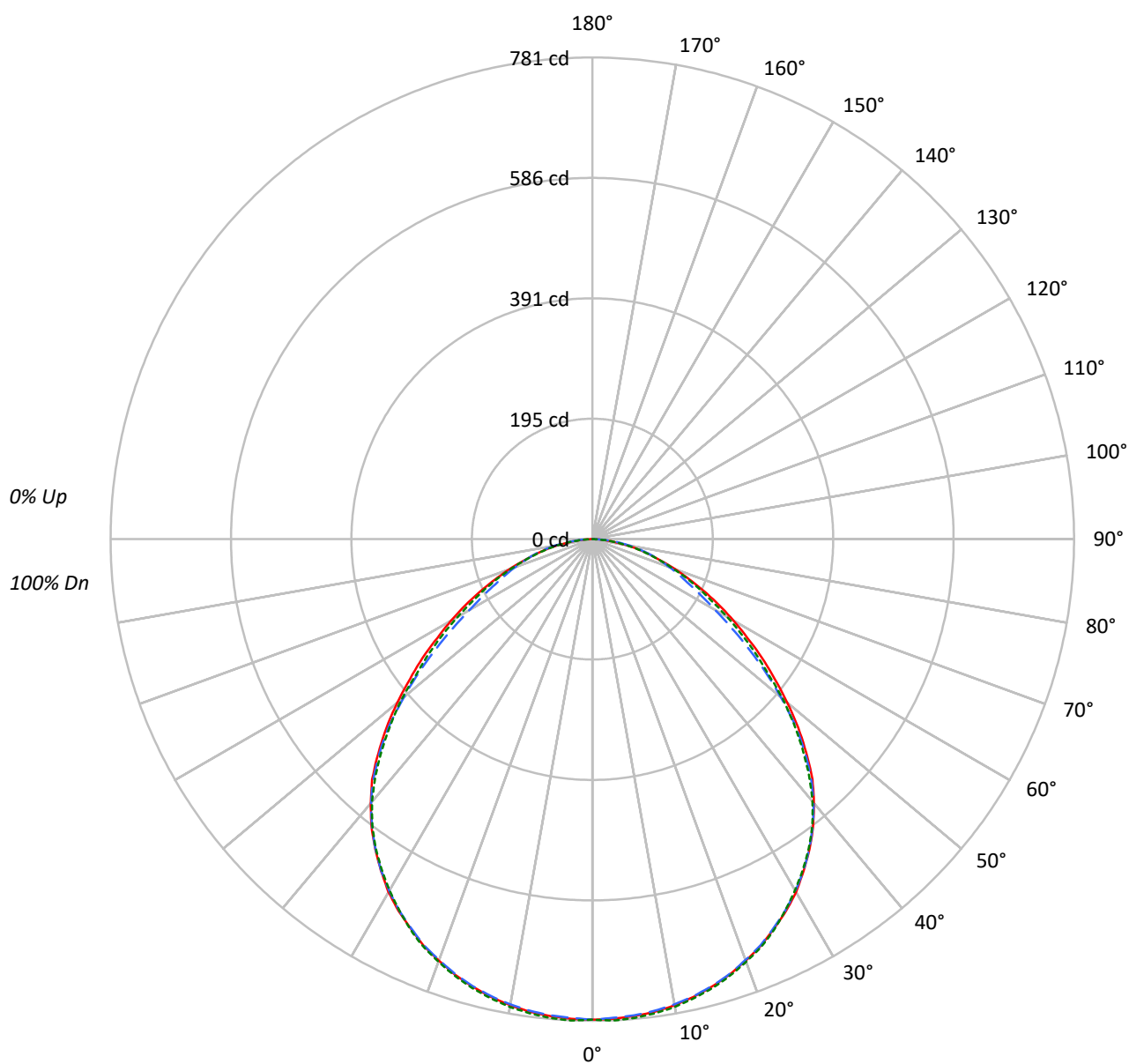
Lumens per Lamp: N/A
Luminaire Lumens: 1964.3 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72		
3	92	82	74	68	90	80	73	68	77	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	46	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	40	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1048	1048	1048
5°	1049	1047	1053
10°	1049	1047	1052
15°	1046	1045	1050
20°	1041	1040	1044
25°	1034	1033	1037
30°	1027	1023	1021
35°	1008	1007	1005
40°	981	980	976
45°	933	926	917
50°	864	835	844
55°	788	724	757
60°	711	618	678
65°	635	553	610
70°	564	523	548
75°	499	507	489
80°	430	484	428
85°	323	383	323

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 935 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.9	3.8
10°-20°	212.1	10.8
20°-30°	321.1	16.3
30°-40°	382.9	19.5
40°-50°	374.1	19.0
50°-60°	286.1	14.6
60°-70°	183.7	9.4
70°-80°	102.2	5.2
80°-90°	28.2	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°	607.1	30.9
0°-40°	990.0	50.4
0°-60°	1650.2	84.0
0°-90°	1964.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1964.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	779	779	779	779	779	
5°	776	777	775	779	779	74
15°	751	752	750	753	754	212
25°	697	698	696	698	698	321
35°	614	614	613	613	612	383
45°	490	492	487	486	482	377
55°	336	324	309	313	323	300
65°	200	184	174	179	192	199
75°	96	97	98	96	94	102
85°	21	24	25	24	21	26
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	779.1	779.1	779.1	779.1	779.1
2.5°	778.6	778.9	776.9	780.2	781.3
5°	776.4	776.9	775.0	778.6	779.4
7.5°	773.0	773.5	771.6	775.3	775.6
10°	767.5	767.8	766.1	769.7	770.2
12.5°	760.0	760.8	758.9	762.2	762.4
15°	751.0	751.6	750.2	752.7	753.5
17.5°	740.4	740.7	739.3	742.1	742.4
20°	727.3	727.3	726.2	729.3	729.3
22.5°	713.9	713.1	712.8	713.9	715.6
25°	696.7	697.5	695.6	697.8	698.3
27.5°	680.0	680.0	678.3	679.4	678.0
30°	660.8	659.6	658.5	658.7	657.4
32.5°	637.6	637.6	637.1	637.1	635.3
35°	613.7	614.2	613.1	612.8	612.0
37.5°	588.0	588.9	586.8	586.3	585.7
40°	558.7	558.7	557.9	556.8	555.4
42.5°	528.3	528.3	524.8	521.9	520.0
45°	490.5	491.6	486.8	485.7	481.8
47.5°	452.8	452.0	445.6	444.8	442.6
50°	412.7	407.9	398.8	401.3	403.3
52.5°	372.6	366.7	353.4	356.1	359.4
55°	336.0	324.4	308.8	312.7	322.7
57.5°	297.9	282.3	266.7	274.0	286.4
60°	264.2	246.6	229.6	237.4	251.9
62.5°	231.9	213.2	199.6	207.1	219.3
65°	199.6	184.2	173.6	179.4	191.5
67.5°	170.0	159.7	152.5	155.2	164.9
70°	143.3	136.8	132.9	133.8	139.3
72.5°	117.9	116.2	114.8	114.8	115.3
75°	95.9	96.7	97.5	96.2	94.0
77.5°	75.5	78.3	80.3	77.5	74.7
80°	55.5	59.9	62.5	59.3	55.2
82.5°	37.9	42.9	43.7	41.8	37.1
85°	20.9	24.5	24.8	24.0	20.9
87.5°	7.8	9.2	10.0	9.2	8.1
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)