

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: P1050498

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

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050498
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2310-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-20-L850-UNV-STD-W
Description: 2000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

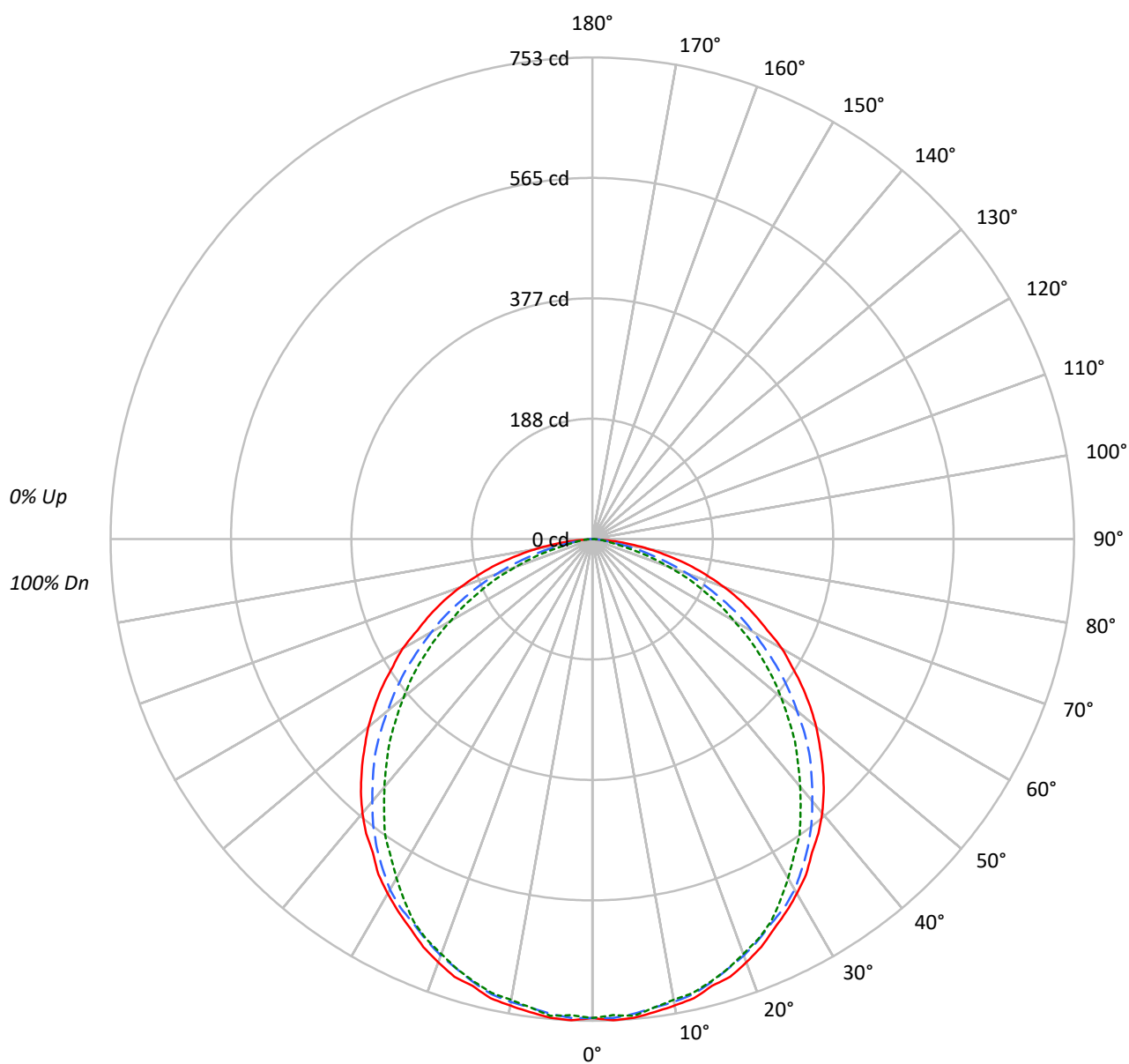
Lumens per Lamp: N/A
Luminaire Lumens: 1993.6 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	98	95	93	95	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52		
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40		
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35		
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31		
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1007	1007	1007
5°	1014	1006	1010
10°	1012	1004	999
15°	1007	999	997
20°	1008	992	988
25°	998	983	980
30°	994	983	951
35°	983	965	928
40°	982	940	888
45°	969	915	852
50°	956	874	806
55°	938	833	757
60°	921	780	687
65°	890	715	614
70°	861	623	502
75°	809	491	345
80°	701	297	207
85°	468	213	199

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 969 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.9	3.6
10°-20°	203.0	10.2
20°-30°	306.7	15.4
30°-40°	364.6	18.3
40°-50°	369.8	18.5
50°-60°	321.1	16.1
60°-70°	228.0	11.4
70°-80°	108.9	5.5
80°-90°	20.6	1.0
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°	580.6	29.1
0°-40°	945.2	47.4
0°-60°	1636.1	82.1
0°-90°	1993.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1993.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	748	748	748	748	748	
5°	751	748	745	747	748	71
15°	723	725	717	716	716	205
25°	672	671	662	665	660	310
35°	598	597	588	568	565	376
45°	510	505	481	456	448	393
55°	400	388	355	334	323	357
65°	280	258	225	201	193	277
75°	156	127	94	75	66	163
85°	30	16	14	13	13	38
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	748.5	748.5	748.5	748.5	748.5
2.5°	752.9	750.2	749.3	752.5	744.9
5°	751.1	748.5	744.9	746.7	748.0
7.5°	745.8	743.6	738.6	742.7	738.6
10°	740.4	738.2	734.6	736.0	731.5
12.5°	735.1	729.7	728.8	729.7	726.6
15°	723.0	724.8	717.3	716.4	715.9
17.5°	717.3	712.8	704.8	705.2	704.3
20°	703.9	698.5	692.7	691.8	690.1
22.5°	690.1	683.8	678.5	681.1	677.1
25°	672.2	671.3	662.4	665.1	660.2
27.5°	656.6	653.5	649.5	643.7	636.6
30°	639.7	636.6	632.6	617.4	612.0
32.5°	621.9	618.3	610.3	592.4	586.6
35°	598.2	597.3	587.5	567.5	564.8
37.5°	580.4	570.6	562.6	542.1	534.5
40°	559.0	553.7	534.9	515.3	505.5
42.5°	535.4	529.1	507.7	486.8	476.1
45°	509.5	505.1	481.0	455.6	448.0
47.5°	482.8	478.8	450.2	425.7	415.9
50°	456.9	452.0	417.7	394.1	385.1
52.5°	428.8	420.8	386.9	363.8	355.3
55°	399.9	387.8	355.3	334.3	322.7
57.5°	369.1	358.0	321.8	300.0	290.6
60°	342.4	326.8	289.8	267.5	255.4
62.5°	308.0	294.7	259.4	233.1	227.3
65°	279.5	258.5	224.7	200.6	193.0
67.5°	250.5	226.0	191.7	167.2	163.2
70°	218.9	193.5	158.3	134.2	127.5
72.5°	186.8	161.8	127.5	102.1	98.1
75°	155.6	127.0	94.5	74.9	66.4
77.5°	121.7	95.8	66.4	45.9	40.6
80°	90.5	64.6	38.3	27.2	26.7
82.5°	59.3	37.4	20.5	21.0	20.1
85°	30.3	16.0	13.8	13.4	12.9
87.5°	5.8	6.2	6.7	6.7	6.7
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)