

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: P1050575

Luminaire Tested: 24PTR-20-PB1-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050575
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737703)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-20-PB1-L850-UNV-STD-W
Description: 2000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

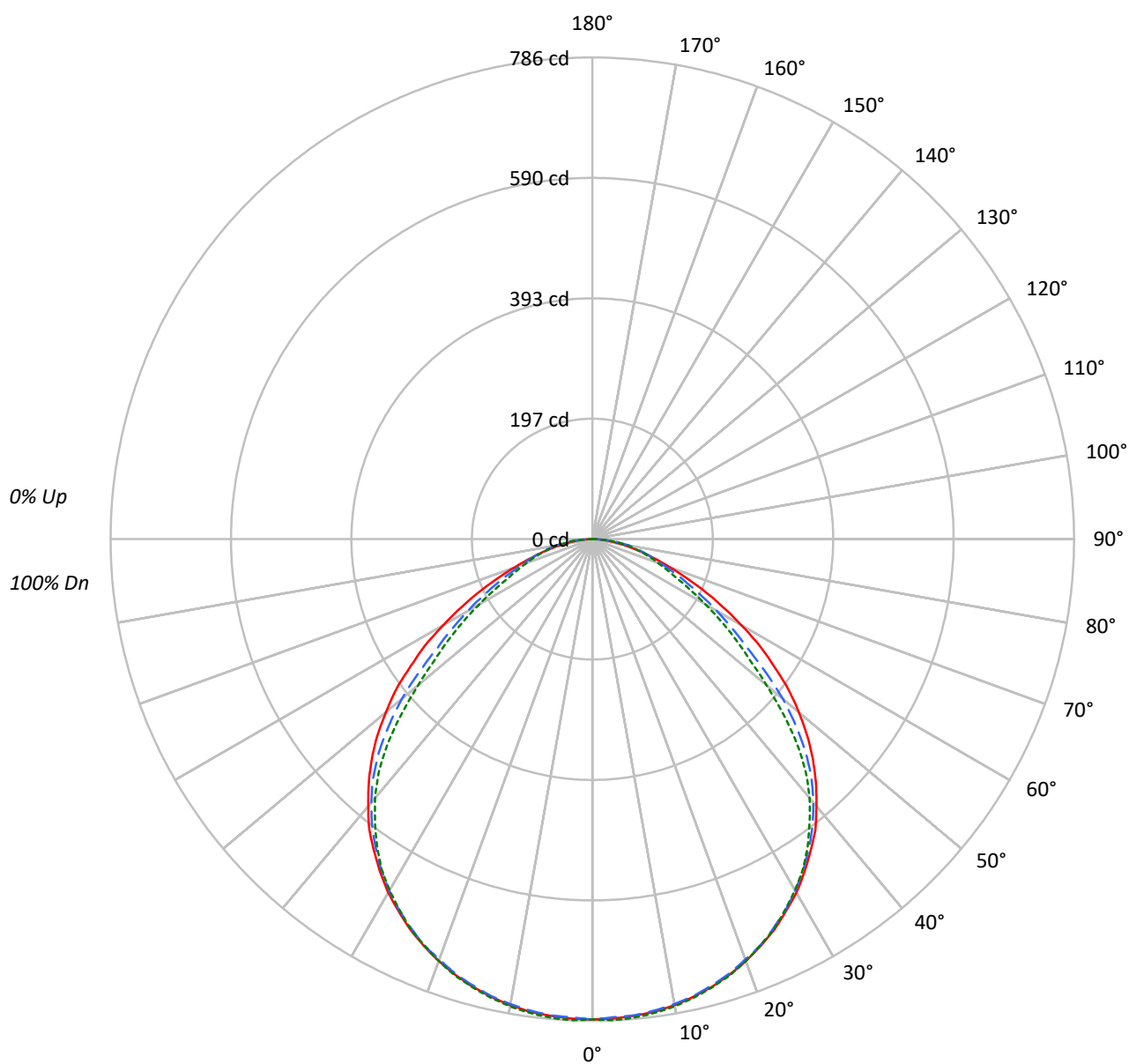
Lumens per Lamp: N/A
Luminaire Lumens: 1954.6 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	88	88	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	75	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64	64	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	56	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	49	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	44	44	42
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	39	39	37
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	35	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	32	32	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	29	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1055	1055	1055
5°	1055	1053	1059
10°	1055	1053	1058
15°	1053	1050	1054
20°	1049	1045	1049
25°	1044	1039	1042
30°	1035	1029	1028
35°	1020	1012	1006
40°	999	986	968
45°	969	937	899
50°	920	850	777
55°	848	722	669
60°	755	630	573
65°	648	547	488
70°	535	482	448
75°	451	461	436
80°	381	470	449
85°	298	477	417

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°	74.3	3.8
10°-20°	213.3	10.9
20°-30°	323.0	16.5
30°-40°	384.9	19.7
40°-50°	376.4	19.3
50°-60°	284.7	14.6
60°-70°	174.9	9.0
70°-80°	93.2	4.8
80°-90°	29.7	1.5
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°	610.6	31.2
0°-40°	995.6	50.9
0°-60°	1656.7	84.8
0°-90°	1954.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1954.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	784	784	784	784	784	
5°	781	782	780	783	784	74
15°	756	757	754	757	757	213
25°	703	702	700	701	702	324
35°	621	620	616	613	612	388
45°	509	506	493	476	472	392
55°	362	343	308	290	285	324
65°	204	187	172	158	153	202
75°	87	88	89	86	84	93
85°	19	25	31	29	27	23
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	783.8	783.8	783.8	783.8	783.8
2.5°	782.9	783.8	780.9	784.9	785.8
5°	780.9	781.9	780.0	782.9	783.8
7.5°	778.1	778.1	776.1	779.0	780.0
10°	772.3	772.3	770.4	773.2	774.2
12.5°	764.6	764.6	763.6	765.5	766.5
15°	755.9	756.8	754.0	756.8	756.8
17.5°	745.3	744.4	743.4	745.3	746.3
20°	732.7	732.7	729.9	731.8	732.7
22.5°	718.3	718.3	717.3	718.3	717.3
25°	702.9	701.9	699.9	700.9	701.9
27.5°	684.5	684.5	682.6	682.6	681.6
30°	666.2	665.2	662.4	660.5	661.4
32.5°	644.1	643.0	640.2	638.3	639.2
35°	620.9	620.0	616.1	613.2	612.3
37.5°	597.8	594.9	590.0	586.2	582.3
40°	568.9	565.9	561.2	552.5	551.4
42.5°	539.9	537.1	529.3	518.7	515.8
45°	509.0	506.2	492.6	476.2	472.4
47.5°	476.2	471.5	450.2	430.0	422.3
50°	439.7	431.0	405.9	379.9	371.2
52.5°	404.0	388.6	355.8	332.6	324.0
55°	361.6	343.2	307.6	290.2	285.3
57.5°	324.0	298.9	270.0	252.6	248.8
60°	280.6	257.4	234.3	218.8	213.1
62.5°	241.0	220.8	201.5	188.0	181.3
65°	203.5	187.1	171.7	158.1	153.3
67.5°	166.8	158.1	145.6	135.0	132.1
70°	135.9	131.1	122.5	117.6	113.8
72.5°	108.0	109.9	104.2	102.2	99.3
75°	86.7	87.8	88.7	85.8	83.9
77.5°	65.6	70.3	74.2	72.3	70.3
80°	49.2	53.9	60.7	57.9	57.9
82.5°	33.7	39.6	45.3	43.4	42.4
85°	19.3	25.1	30.9	28.9	27.0
87.5°	7.7	12.6	13.5	13.5	12.6
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)