

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: P1051037

Luminaire Tested: 24PTR-20-PW1-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1051037
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737743)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-20-PW1-L850-UNV-STD-W
Description: 2000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND WAVES LENS

Light Source:
Ballast/Driver: -

Summary

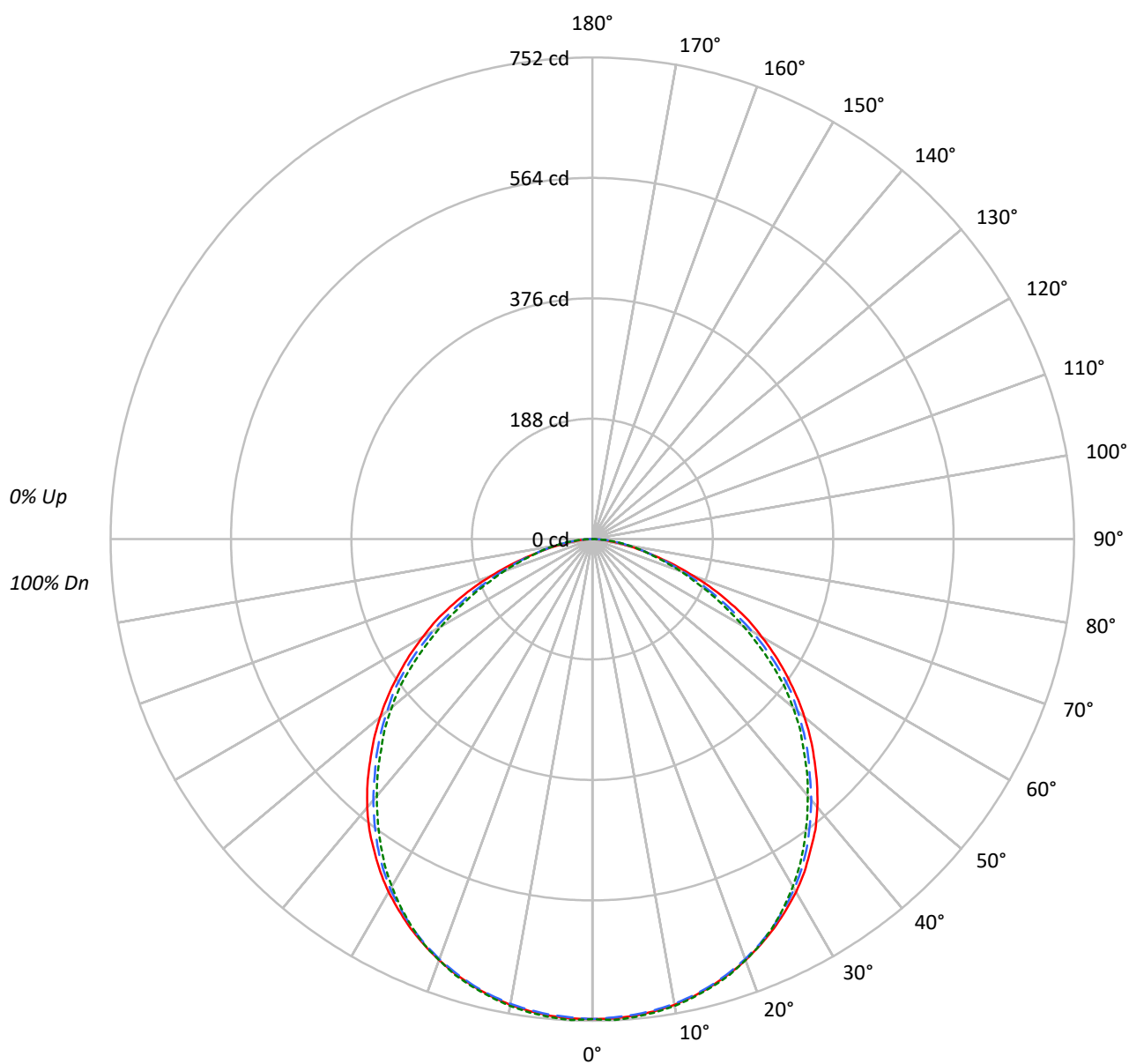
Lumens per Lamp: N/A
Luminaire Lumens: 1988.5 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71		
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	57	68	61	56	66	60	55	64	59	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	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31		
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1008	1008	1008
5°	1009	1007	1012
10°	1009	1006	1011
15°	1006	1004	1008
20°	1001	999	1001
25°	996	992	991
30°	988	980	973
35°	975	960	948
40°	960	934	919
45°	934	906	887
50°	905	876	855
55°	868	838	805
60°	823	774	734
65°	761	691	657
70°	660	602	579
75°	527	515	501
80°	401	447	447
85°	296	381	381

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 934 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.1	3.6
10°-20°	203.8	10.3
20°-30°	308.0	15.5
30°-40°	365.8	18.4
40°-50°	368.5	18.5
50°-60°	318.5	16.0
60°-70°	217.7	10.9
70°-80°	107.4	5.4
80°-90°	27.8	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°	582.9	29.3
0°-40°	948.7	47.7
0°-60°	1635.7	82.3
0°-90°	1988.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1988.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	749	749	749	749	749	
5°	747	747	746	748	749	71
15°	722	723	721	723	724	204
25°	671	670	668	669	668	309
35°	594	592	585	579	577	372
45°	491	485	476	470	466	379
55°	370	369	357	347	343	331
65°	239	230	217	208	206	236
75°	101	100	99	99	96	110
85°	19	22	25	25	25	24
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	749.3	749.3	749.3	749.3	749.3
2.5°	749.1	749.3	747.4	750.7	751.5
5°	747.1	747.4	745.5	748.5	749.3
7.5°	743.5	744.1	741.8	744.9	745.5
10°	738.2	738.5	736.6	739.6	740.2
12.5°	731.0	731.2	729.6	732.4	732.4
15°	721.9	722.7	720.7	723.3	723.5
17.5°	711.6	711.9	710.0	712.7	713.3
20°	699.4	699.4	697.7	700.0	699.4
22.5°	685.7	685.7	683.8	684.9	685.4
25°	670.8	670.2	668.0	668.6	667.5
27.5°	653.6	653.6	649.6	649.6	647.7
30°	636.1	634.7	630.6	628.0	626.1
32.5°	616.0	614.1	608.9	604.4	603.0
35°	593.6	591.6	584.6	579.4	577.2
37.5°	571.9	567.5	558.3	553.1	550.5
40°	546.6	541.1	531.7	524.4	523.3
42.5°	519.5	515.0	502.8	497.5	496.2
45°	490.6	485.3	476.1	470.5	466.4
47.5°	462.3	458.3	447.8	441.2	439.8
50°	432.5	429.2	418.4	411.2	408.7
52.5°	401.7	399.5	390.3	381.2	378.1
55°	369.9	368.7	357.3	346.8	343.1
57.5°	338.5	337.1	322.8	310.6	307.3
60°	305.7	301.6	287.6	276.2	272.6
62.5°	274.6	265.7	250.7	241.8	237.7
65°	239.0	230.4	217.1	207.6	206.3
67.5°	204.1	193.8	183.5	177.7	173.2
70°	167.7	160.7	152.9	148.0	147.2
72.5°	133.8	128.8	124.9	121.9	119.4
75°	101.3	100.5	99.1	99.1	96.3
77.5°	74.5	76.4	77.5	77.2	77.8
80°	51.7	55.5	57.7	58.0	57.7
82.5°	32.8	37.2	40.9	41.4	42.0
85°	19.2	22.5	24.7	25.2	24.7
87.5°	8.6	10.8	11.4	11.9	11.4
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)