

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: P1051026

Luminaire Tested: 24PTR-20-PW1-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1051026
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-L840-UNV-STD-W
Description: 2000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND WAVES LENS

Light Source:
Ballast/Driver: -

Summary

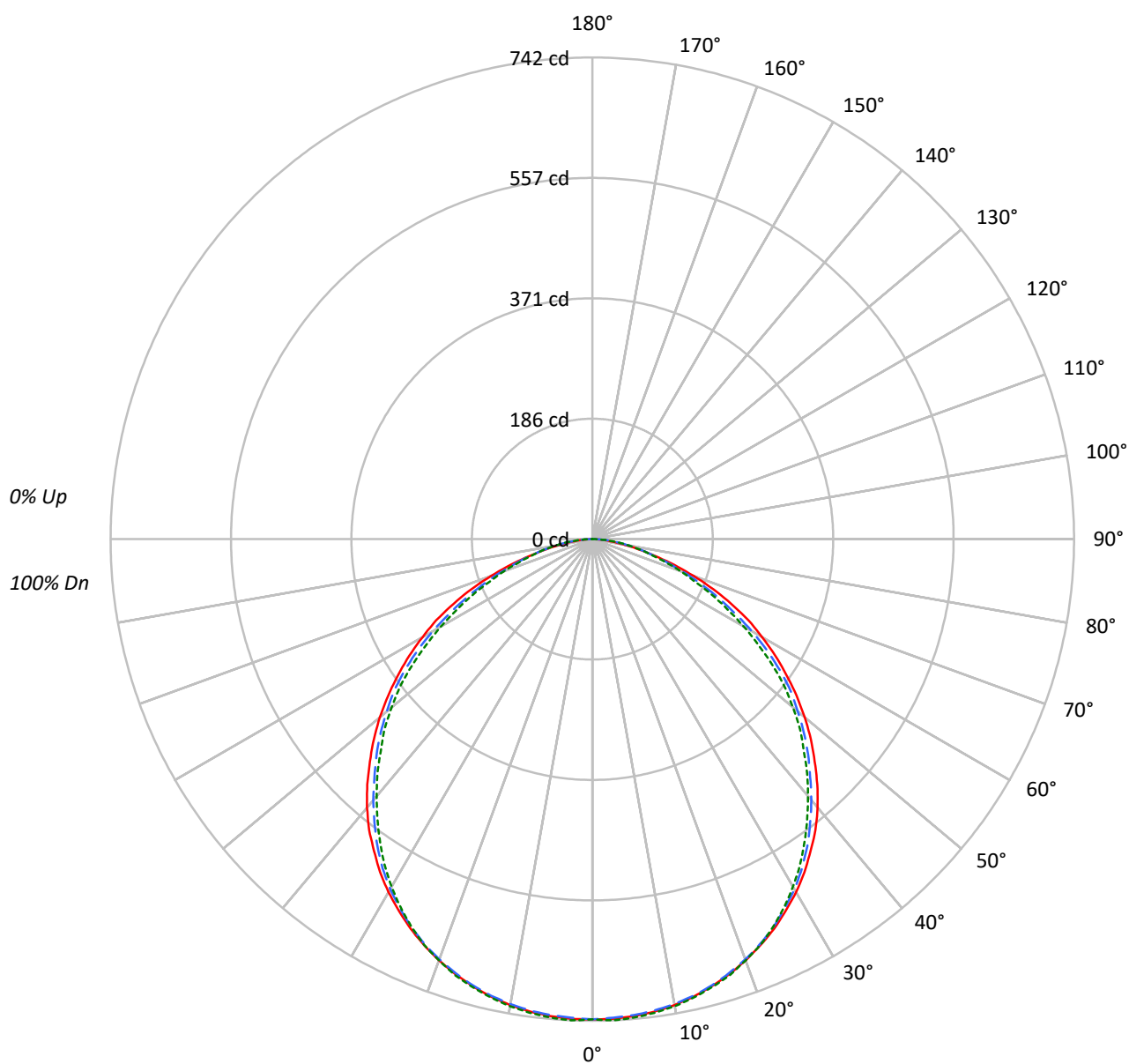
Lumens per Lamp: N/A
Luminaire Lumens: 1963.3 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	995	995	995
5°	996	994	999
10°	996	994	998
15°	993	991	995
20°	989	986	989
25°	983	979	978
30°	976	967	960
35°	963	948	936
40°	948	922	908
45°	922	895	876
50°	894	865	845
55°	857	828	795
60°	812	764	724
65°	751	683	649
70°	651	594	572
75°	520	508	494
80°	395	442	442
85°	292	377	377

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 922 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.2	3.6
10°-20°	201.2	10.2
20°-30°	304.1	15.5
30°-40°	361.1	18.4
40°-50°	363.8	18.5
50°-60°	314.5	16.0
60°-70°	214.9	10.9
70°-80°	106.0	5.4
80°-90°	27.4	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°	575.5	29.3
0°-40°	936.6	47.7
0°-60°	1615.0	82.3
0°-90°	1963.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1963.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	740	740	740	740	740	
5°	738	738	736	739	740	70
15°	713	714	712	714	714	201
25°	662	662	660	660	659	305
35°	586	584	577	572	570	367
45°	484	479	470	465	460	374
55°	365	364	353	342	339	326
65°	236	228	214	205	204	233
75°	100	99	98	98	95	109
85°	19	22	24	25	24	23
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	739.8	739.8	739.8	739.8	739.8
2.5°	739.6	739.8	737.9	741.2	742.0
5°	737.6	737.9	736.0	739.0	739.8
7.5°	734.1	734.6	732.4	735.4	736.0
10°	728.8	729.1	727.2	730.2	730.8
12.5°	721.8	722.0	720.4	723.1	723.1
15°	712.7	713.5	711.6	714.1	714.3
17.5°	702.5	702.8	700.9	703.6	704.2
20°	690.5	690.5	688.9	691.1	690.5
22.5°	677.0	677.0	675.2	676.2	676.7
25°	662.3	661.7	659.5	660.1	659.0
27.5°	645.3	645.3	641.4	641.4	639.5
30°	628.0	626.6	622.6	620.1	618.2
32.5°	608.2	606.3	601.1	596.8	595.4
35°	586.1	584.1	577.2	572.1	569.9
37.5°	564.7	560.3	551.2	546.1	543.6
40°	539.7	534.2	524.9	517.8	516.7
42.5°	512.9	508.5	496.5	491.2	489.9
45°	484.4	479.1	470.1	464.6	460.5
47.5°	456.4	452.5	442.2	435.6	434.2
50°	427.0	423.7	413.1	406.0	403.5
52.5°	396.6	394.5	385.4	376.3	373.3
55°	365.2	364.1	352.8	342.4	338.8
57.5°	334.2	332.8	318.7	306.7	303.4
60°	301.8	297.7	284.0	272.7	269.1
62.5°	271.1	262.4	247.5	238.8	234.7
65°	236.0	227.5	214.4	205.0	203.7
67.5°	201.5	191.3	181.2	175.4	171.0
70°	165.6	158.7	151.0	146.1	145.3
72.5°	132.1	127.2	123.3	120.3	117.8
75°	100.0	99.2	97.8	97.8	95.1
77.5°	73.5	75.4	76.5	76.2	76.8
80°	51.0	54.8	57.0	57.3	57.0
82.5°	32.4	36.8	40.3	40.8	41.4
85°	18.9	22.2	24.4	24.9	24.4
87.5°	8.5	10.7	11.3	11.8	11.3
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)