

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: P1050718

Luminaire Tested: 24PTR-20-PL1-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050718
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737719)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-20-PL1-L840-UNV-STD-W
Description: 2000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

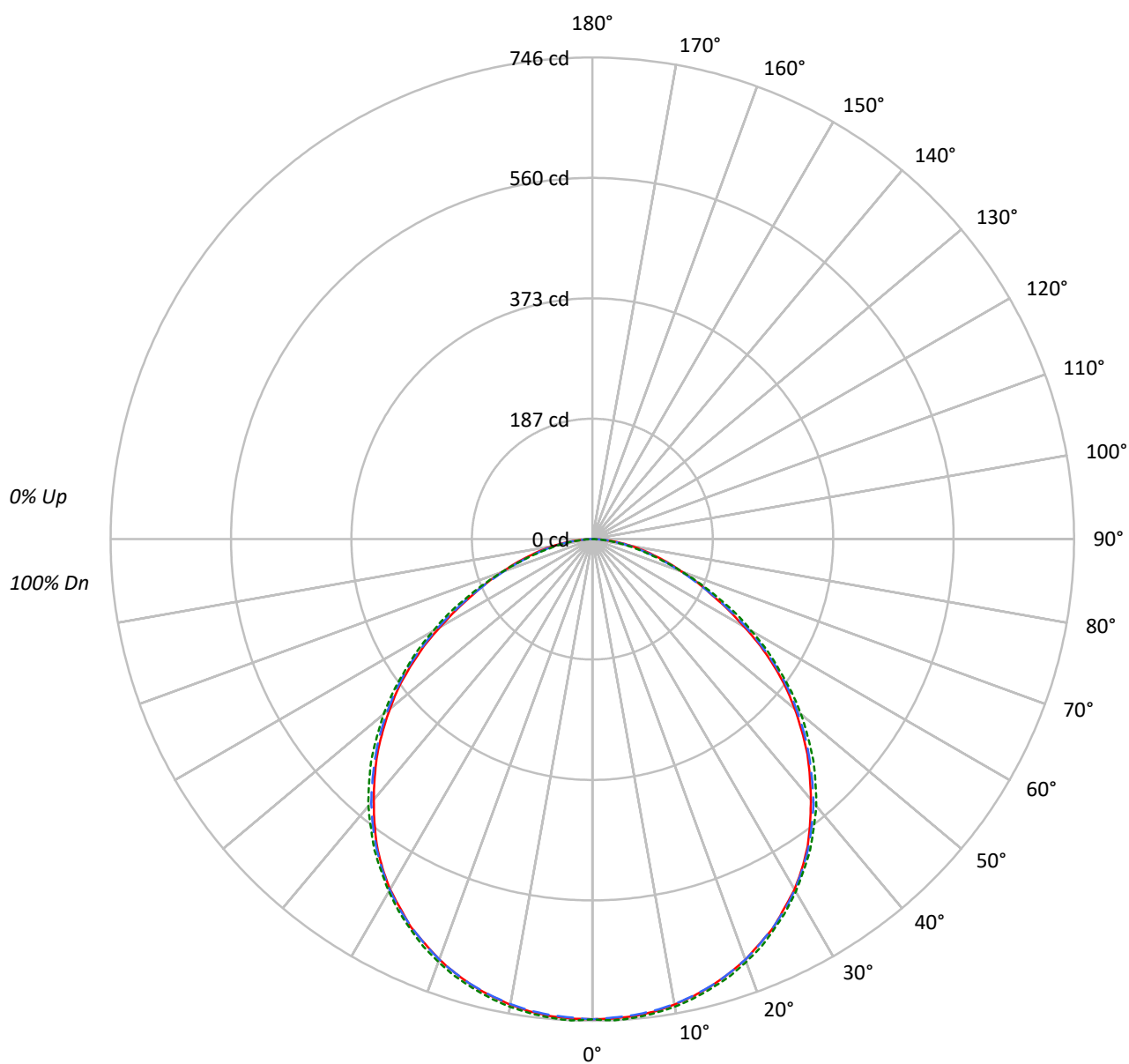
Lumens per Lamp: N/A
Luminaire Lumens: 1960.4 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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		100
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85		85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72		72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61		61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	52		52
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	46		46
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40		40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35		35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32		32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29		29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26		26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1001	1001	1001
5°	1001	1000	1005
10°	1000	999	1005
15°	997	997	1002
20°	992	992	998
25°	985	984	989
30°	973	974	979
35°	954	958	966
40°	925	935	948
45°	896	903	921
50°	857	866	883
55°	807	820	829
60°	732	747	766
65°	650	657	684
70°	581	569	583
75°	524	494	484
80°	477	442	393
85°	403	366	315

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
Vertical Angle: 45°
Luminance: 921 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.5	3.6
10°-20°	202.3	10.3
20°-30°	306.0	15.6
30°-40°	364.8	18.6
40°-50°	366.8	18.7
50°-60°	311.3	15.9
60°-70°	207.3	10.6
70°-80°	103.5	5.3
80°-90°	27.7	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°	578.9	29.5
0°-40°	943.7	48.1
0°-60°	1621.9	82.7
0°-90°	1960.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1960.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	744	744	744	744	744	
5°	742	742	740	743	744	70
15°	716	717	716	719	719	202
25°	664	664	663	666	666	305
35°	581	582	583	587	588	362
45°	471	472	475	481	484	362
55°	344	346	349	353	354	306
65°	204	206	206	210	215	205
75°	101	99	95	93	93	108
85°	26	26	24	22	20	30
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	743.7	743.7	743.7	743.7	743.7
2.5°	743.1	743.7	741.7	745.3	746.2
5°	741.5	741.7	740.1	743.4	744.2
7.5°	737.9	738.2	736.5	740.1	740.6
10°	732.1	732.7	731.3	734.6	735.4
12.5°	724.7	725.5	724.1	727.7	728.3
15°	715.9	716.7	715.6	718.6	719.2
17.5°	705.1	705.7	705.1	707.9	709.5
20°	692.9	692.9	692.9	695.4	696.8
22.5°	677.8	679.2	678.6	681.9	683.3
25°	663.8	663.8	662.9	666.0	666.5
27.5°	644.2	646.4	646.2	648.9	649.5
30°	626.3	626.9	627.2	629.1	630.2
32.5°	604.5	605.0	605.9	608.6	608.9
35°	581.1	581.7	583.3	587.4	588.0
37.5°	553.9	556.9	558.3	562.7	563.2
40°	526.5	528.4	532.6	537.3	539.5
42.5°	498.7	500.9	503.4	509.7	511.7
45°	470.9	471.7	474.8	481.1	483.9
47.5°	440.0	442.5	445.2	450.7	452.4
50°	409.2	411.9	413.6	418.5	421.8
52.5°	378.1	380.6	382.5	385.5	388.8
55°	343.9	346.3	349.4	352.7	353.5
57.5°	309.2	311.9	313.9	317.4	321.0
60°	271.9	275.0	277.7	281.0	284.6
62.5°	237.3	238.6	241.4	246.9	252.1
65°	204.1	205.9	206.4	209.5	214.7
67.5°	176.6	176.6	174.1	175.2	181.0
70°	147.7	146.6	144.7	143.6	148.3
72.5°	124.3	122.8	118.7	116.8	119.3
75°	100.8	99.4	95.0	92.8	93.1
77.5°	81.0	78.8	75.2	71.4	70.6
80°	61.5	60.6	57.1	53.5	50.7
82.5°	43.6	41.7	39.6	37.4	35.2
85°	26.1	25.6	23.7	22.3	20.4
87.5°	10.7	10.7	10.2	9.6	9.1
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)