

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: P1050487

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

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050487
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-L840-UNV-STD-W
Description: 2000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

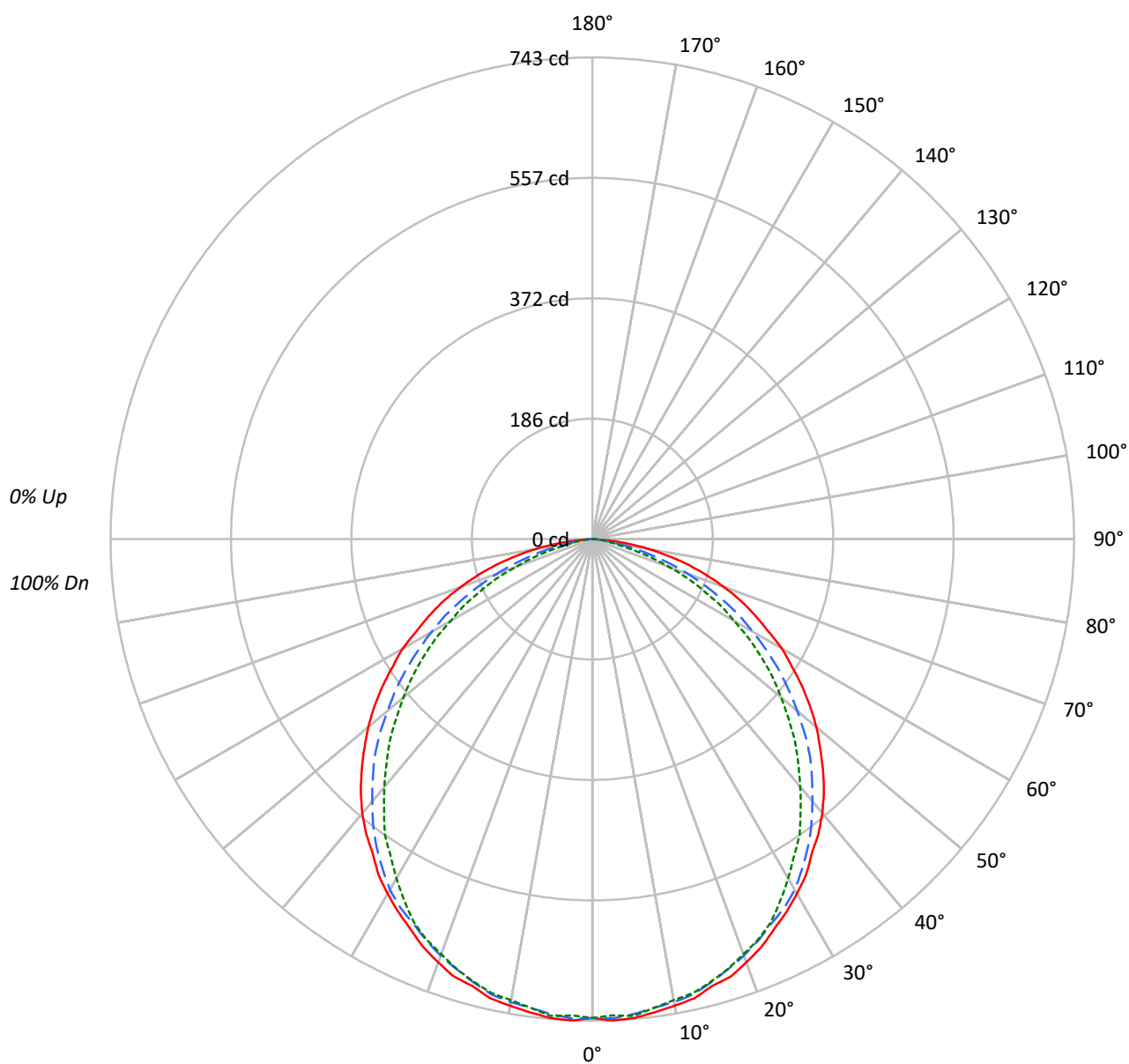
Lumens per Lamp: N/A
Luminaire Lumens: 1967.9 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	994	994	994
5°	1001	993	997
10°	999	991	987
15°	994	986	984
20°	995	979	975
25°	985	971	968
30°	981	970	939
35°	970	953	916
40°	969	927	876
45°	957	903	841
50°	944	863	796
55°	926	823	747
60°	909	770	678
65°	878	706	606
70°	850	614	495
75°	799	485	341
80°	692	293	205
85°	462	210	198

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 957 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	3.6
10°-20°	200.4	10.2
20°-30°	302.7	15.4
30°-40°	359.9	18.3
40°-50°	365.0	18.5
50°-60°	317.0	16.1
60°-70°	225.0	11.4
70°-80°	107.5	5.5
80°-90°	20.4	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°	573.1	29.1
0°-40°	933.0	47.4
0°-60°	1615.0	82.1
0°-90°	1967.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1967.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	739	739	739	739	739	
5°	741	739	735	737	738	70
15°	714	716	708	707	707	202
25°	664	663	654	656	652	306
35°	590	590	580	560	558	371
45°	503	498	475	450	442	388
55°	395	383	351	330	319	353
65°	276	255	222	198	190	273
75°	154	125	93	74	66	161
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°	738.8	738.8	738.8	738.8	738.8
2.5°	743.2	740.6	739.7	742.8	735.3
5°	741.4	738.8	735.3	737.0	738.4
7.5°	736.2	734.0	729.1	733.1	729.1
10°	730.9	728.7	725.2	726.5	722.1
12.5°	725.6	720.3	719.4	720.3	717.2
15°	713.7	715.5	708.0	707.1	706.7
17.5°	708.0	703.6	695.7	696.1	695.2
20°	694.8	689.5	683.8	682.9	681.2
22.5°	681.2	675.0	669.7	672.4	668.4
25°	663.6	662.7	653.9	656.5	651.7
27.5°	648.2	645.1	641.1	635.4	628.4
30°	631.4	628.4	624.4	609.4	604.2
32.5°	613.8	610.3	602.4	584.8	579.1
35°	590.5	589.6	580.0	560.1	557.5
37.5°	572.9	563.2	555.3	535.1	527.6
40°	551.8	546.5	528.0	508.7	499.0
42.5°	528.5	522.3	501.2	480.5	469.9
45°	502.9	498.5	474.8	449.7	442.2
47.5°	476.5	472.6	444.4	420.2	410.5
50°	451.0	446.2	412.3	389.0	380.2
52.5°	423.3	415.4	381.9	359.1	350.7
55°	394.7	382.8	350.7	330.0	318.6
57.5°	364.3	353.3	317.7	296.1	286.9
60°	337.9	322.5	286.0	264.0	252.1
62.5°	304.1	290.9	256.1	230.1	224.4
65°	275.9	255.2	221.8	198.0	190.5
67.5°	247.3	223.1	189.2	165.0	161.0
70°	216.1	191.0	156.2	132.4	125.8
72.5°	184.4	159.7	125.8	100.8	96.8
75°	153.6	125.4	93.3	73.9	65.6
77.5°	120.1	94.6	65.6	45.3	40.0
80°	89.3	63.8	37.8	26.8	26.4
82.5°	58.5	37.0	20.2	20.7	19.8
85°	29.9	15.8	13.6	13.2	12.8
87.5°	5.7	6.2	6.6	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)