

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: P1050773

Luminaire Tested: 24PTR-20-PLG-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050773
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2409-224-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-20-PLG-L830-UNV-STD-W
Description: 2000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

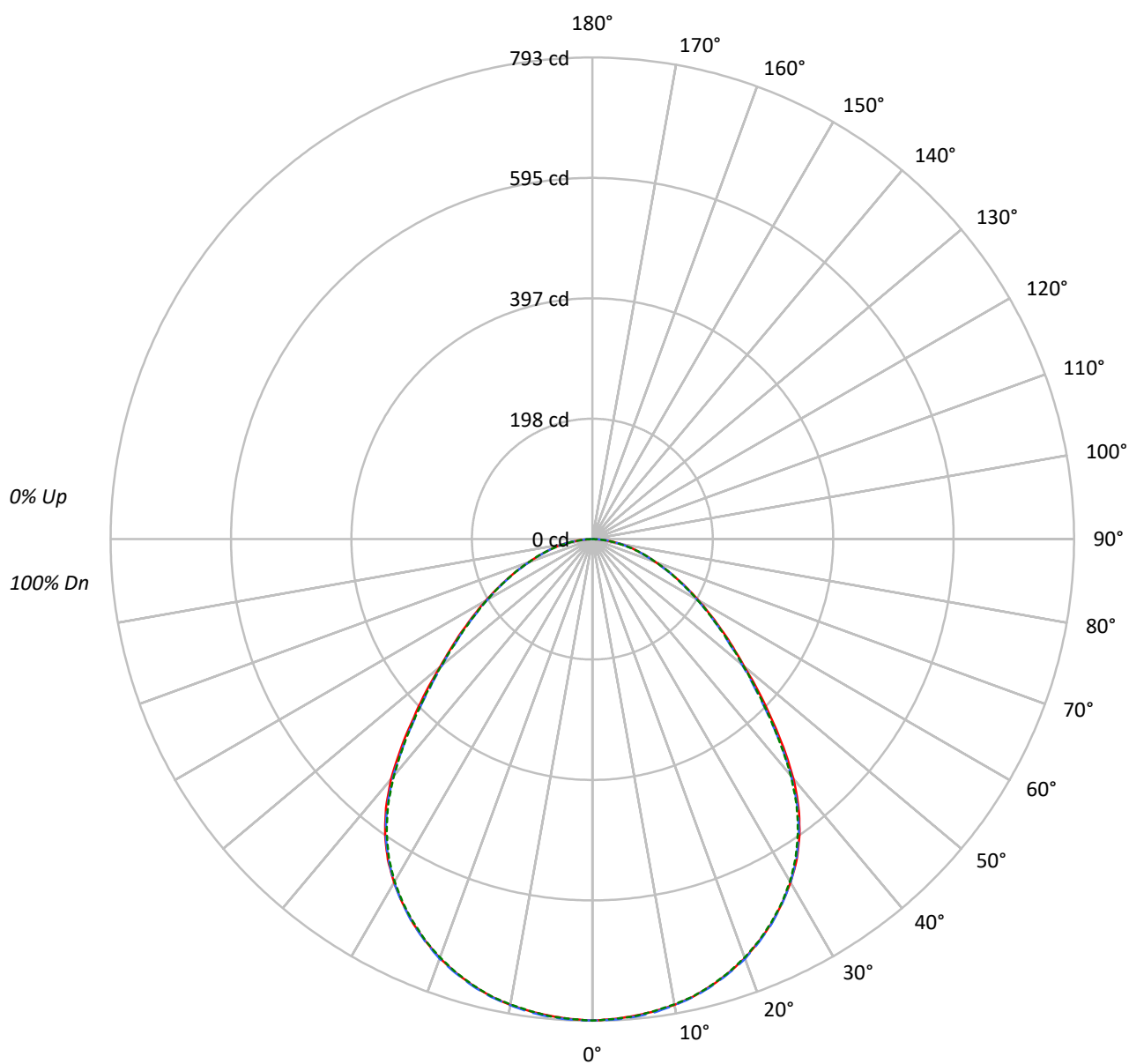
Lumens per Lamp: N/A
Luminaire Lumens: 1785.8 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74		
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	69	66	64		
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56		
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49		
6	74	61	53	47	72	60	52	47	58	51	46	57	51	46	55	50	45	43		
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39		
8	64	51	43	38	62	51	43	38	49	42	37	48	42	37	47	41	37	35		
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32		
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1066	1066	1066
5°	1064	1067	1065
10°	1064	1064	1063
15°	1059	1061	1059
20°	1051	1053	1049
25°	1036	1037	1034
30°	1014	1014	1011
35°	977	974	969
40°	905	895	892
45°	791	778	781
50°	683	675	678
55°	607	598	599
60°	543	536	536
65°	487	484	485
70°	438	434	438
75°	407	401	407
80°	379	375	362
85°	321	321	287

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 791 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.0	4.2
10°-20°	214.7	12.0
20°-30°	321.3	18.0
30°-40°	368.1	20.6
40°-50°	318.3	17.8
50°-60°	230.4	12.9
60°-70°	151.7	8.5
70°-80°	82.6	4.6
80°-90°	23.7	1.3
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°	611.0	34.2
0°-40°	979.1	54.8
0°-60°	1527.8	85.6
0°-90°	1785.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1785.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	793	793	793	793	793	
5°	788	790	790	790	789	75
15°	760	761	762	763	760	215
25°	698	698	699	699	696	321
35°	595	594	593	592	590	369
45°	416	415	409	408	411	322
55°	259	258	255	253	255	233
65°	153	154	152	151	152	153
75°	78	78	77	77	78	83
85°	21	21	21	21	19	24
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	792.6	792.6	792.6	792.6	792.6
2.5°	790.9	792.6	792.0	792.6	790.9
5°	788.1	789.7	789.7	789.7	788.6
7.5°	784.1	785.2	785.8	786.4	783.6
10°	778.5	779.6	779.1	780.2	777.9
12.5°	771.2	771.2	771.7	772.9	770.6
15°	760.5	761.1	761.6	762.7	759.9
17.5°	748.1	748.7	749.2	749.8	747.6
20°	734.1	734.1	735.2	735.7	732.9
22.5°	716.6	716.6	717.7	719.4	716.1
25°	698.1	698.1	698.6	699.2	696.4
27.5°	676.1	676.1	676.7	678.4	675.0
30°	652.5	651.9	652.5	653.1	650.8
32.5°	626.1	625.5	624.9	625.5	622.7
35°	594.6	594.0	592.9	592.3	590.1
37.5°	558.0	556.9	554.6	554.6	552.4
40°	515.2	512.4	509.6	508.5	507.9
42.5°	465.7	463.5	459.6	459.0	459.0
45°	415.7	414.6	408.9	408.4	410.6
47.5°	370.7	367.9	362.8	361.7	365.1
50°	326.2	326.8	322.3	320.6	324.0
52.5°	291.4	290.2	286.3	285.2	288.0
55°	258.7	257.6	254.8	253.1	255.4
57.5°	228.9	228.4	225.6	225.0	226.1
60°	201.9	201.4	199.1	198.6	199.1
62.5°	176.6	176.6	174.4	173.2	174.9
65°	153.0	154.1	151.9	150.7	152.4
67.5°	131.6	132.7	130.5	129.4	131.6
70°	111.4	112.5	110.2	109.1	111.4
72.5°	93.9	94.5	92.8	92.2	95.1
75°	78.2	78.2	77.1	77.1	78.2
77.5°	63.6	63.0	62.4	62.4	61.3
80°	48.9	48.4	48.4	48.4	46.7
82.5°	34.9	33.7	34.3	34.9	32.1
85°	20.8	20.8	20.8	21.4	18.6
87.5°	8.4	8.4	7.9	8.4	7.3
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)