

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: P1050784

Luminaire Tested: 24PTR-20-PLG-L835-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050784
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-L835-UNV-STD-W
Description: 2000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

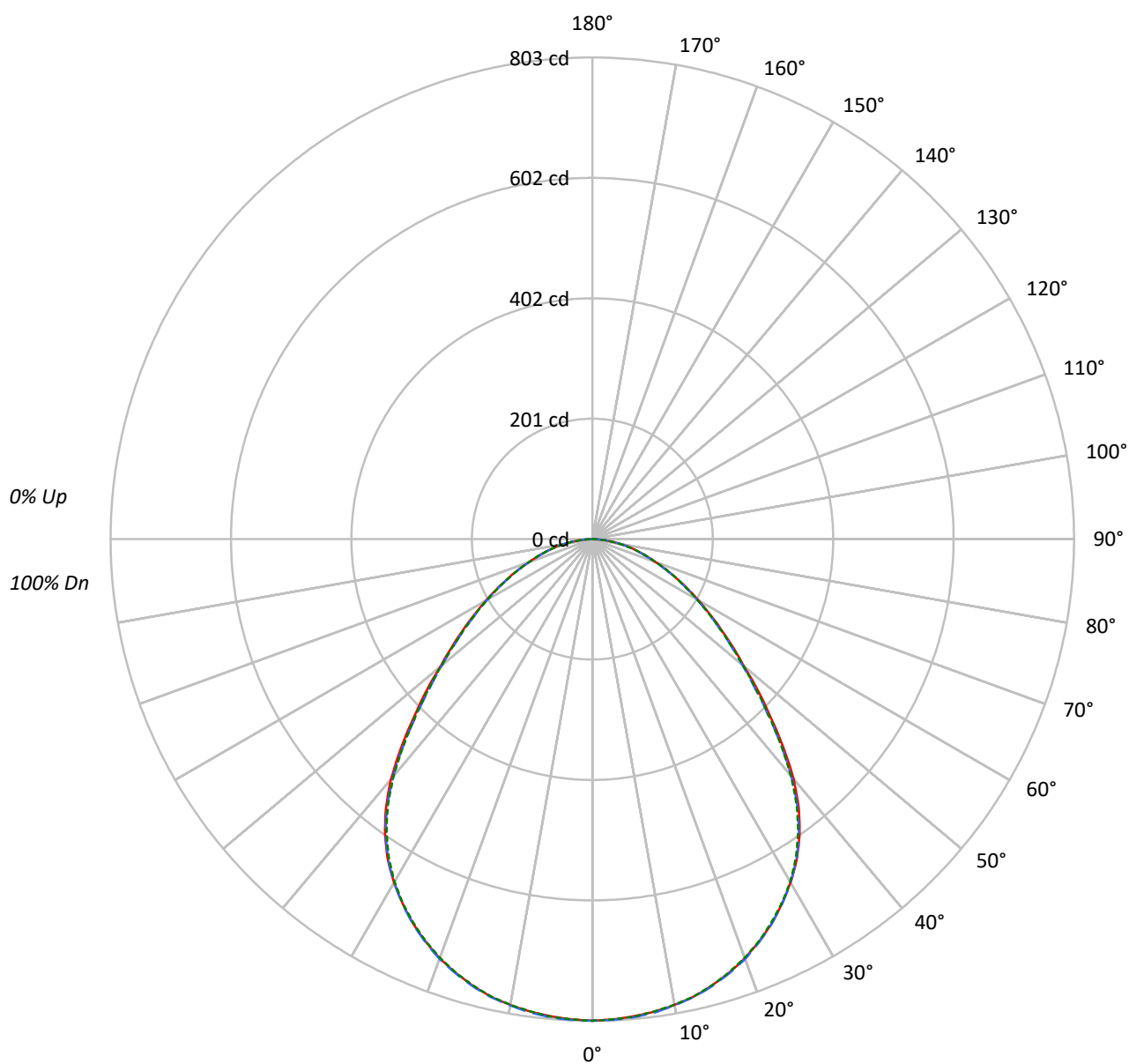
Lumens per Lamp: N/A
Luminaire Lumens: 1809.4 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1050784

CATALOG NUMBER: 24PTR-20-PLG-L835-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1050784

CATALOG NUMBER: 24PTR-20-PLG-L835-UNV-STD-W

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	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86	84	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74	72	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	69	66	64	62	64
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56	54	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49	47	49
6	74	61	53	47	72	60	52	47	58	51	46	57	51	46	55	50	45	43	41	43
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39	37	39
8	64	51	43	38	62	51	43	38	49	42	37	48	42	37	47	41	37	35	33	35
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32	30	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29	27	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1080	1080	1080
5°	1078	1081	1079
10°	1078	1078	1077
15°	1073	1075	1072
20°	1065	1067	1063
25°	1050	1051	1047
30°	1027	1027	1024
35°	989	987	982
40°	917	907	904
45°	801	788	792
50°	692	684	687
55°	615	606	607
60°	551	543	543
65°	493	490	492
70°	444	439	444
75°	412	406	412
80°	384	380	366
85°	326	326	290

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 801 cd/sqm

TEST NUMBER: P1050784

CATALOG NUMBER: 24PTR-20-PLG-L835-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.0	4.2
10°-20°	217.5	12.0
20°-30°	325.5	18.0
30°-40°	372.9	20.6
40°-50°	322.5	17.8
50°-60°	233.4	12.9
60°-70°	153.7	8.5
70°-80°	83.7	4.6
80°-90°	24.0	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°	619.1	34.2
0°-40°	992.0	54.8
0°-60°	1547.9	85.6
0°-90°	1809.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1809.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	803	803	803	803	803	
5°	798	800	800	800	799	76
15°	770	771	772	773	770	217
25°	707	707	708	708	706	325
35°	602	602	601	600	598	374
45°	421	420	414	414	416	326
55°	262	261	258	256	259	236
65°	155	156	154	153	154	155
75°	79	79	78	78	79	84
85°	21	21	21	22	19	24
90°	0	0	0	0	0	

TEST NUMBER: P1050784

CATALOG NUMBER: 24PTR-20-PLG-L835-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	803.0	803.0	803.0	803.0	803.0
2.5°	801.3	803.0	802.4	803.0	801.3
5°	798.4	800.1	800.1	800.1	799.0
7.5°	794.4	795.6	796.1	796.7	793.9
10°	788.7	789.9	789.3	790.4	788.2
12.5°	781.3	781.3	781.9	783.0	780.8
15°	770.5	771.1	771.6	772.8	769.9
17.5°	758.0	758.5	759.1	759.7	757.4
20°	743.7	743.7	744.9	745.4	742.6
22.5°	726.1	726.1	727.2	728.9	725.5
25°	707.2	707.2	707.8	708.4	705.5
27.5°	685.0	685.0	685.6	687.3	683.9
30°	661.1	660.5	661.1	661.7	659.4
32.5°	634.3	633.7	633.2	633.7	630.9
35°	602.4	601.8	600.7	600.1	597.8
37.5°	565.3	564.2	561.9	561.9	559.6
40°	522.0	519.2	516.3	515.2	514.6
42.5°	471.9	469.6	465.6	465.0	465.0
45°	421.2	420.0	414.3	413.7	416.0
47.5°	375.6	372.7	367.6	366.4	369.9
50°	330.5	331.1	326.6	324.8	328.3
52.5°	295.2	294.1	290.1	288.9	291.8
55°	262.2	261.0	258.2	256.5	258.7
57.5°	231.9	231.4	228.5	228.0	229.1
60°	204.6	204.0	201.7	201.2	201.7
62.5°	178.9	178.9	176.7	175.5	177.2
65°	155.0	156.2	153.9	152.7	154.4
67.5°	133.4	134.5	132.2	131.1	133.4
70°	112.8	114.0	111.7	110.6	112.8
72.5°	95.2	95.7	94.0	93.5	96.3
75°	79.2	79.2	78.1	78.1	79.2
77.5°	64.4	63.8	63.3	63.3	62.1
80°	49.6	49.0	49.0	49.0	47.3
82.5°	35.3	34.2	34.8	35.3	32.5
85°	21.1	21.1	21.1	21.7	18.8
87.5°	8.5	8.5	8.0	8.5	7.4
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)