

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: P1050795

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

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050795
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-L840-UNV-STD-W
Description: 2000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

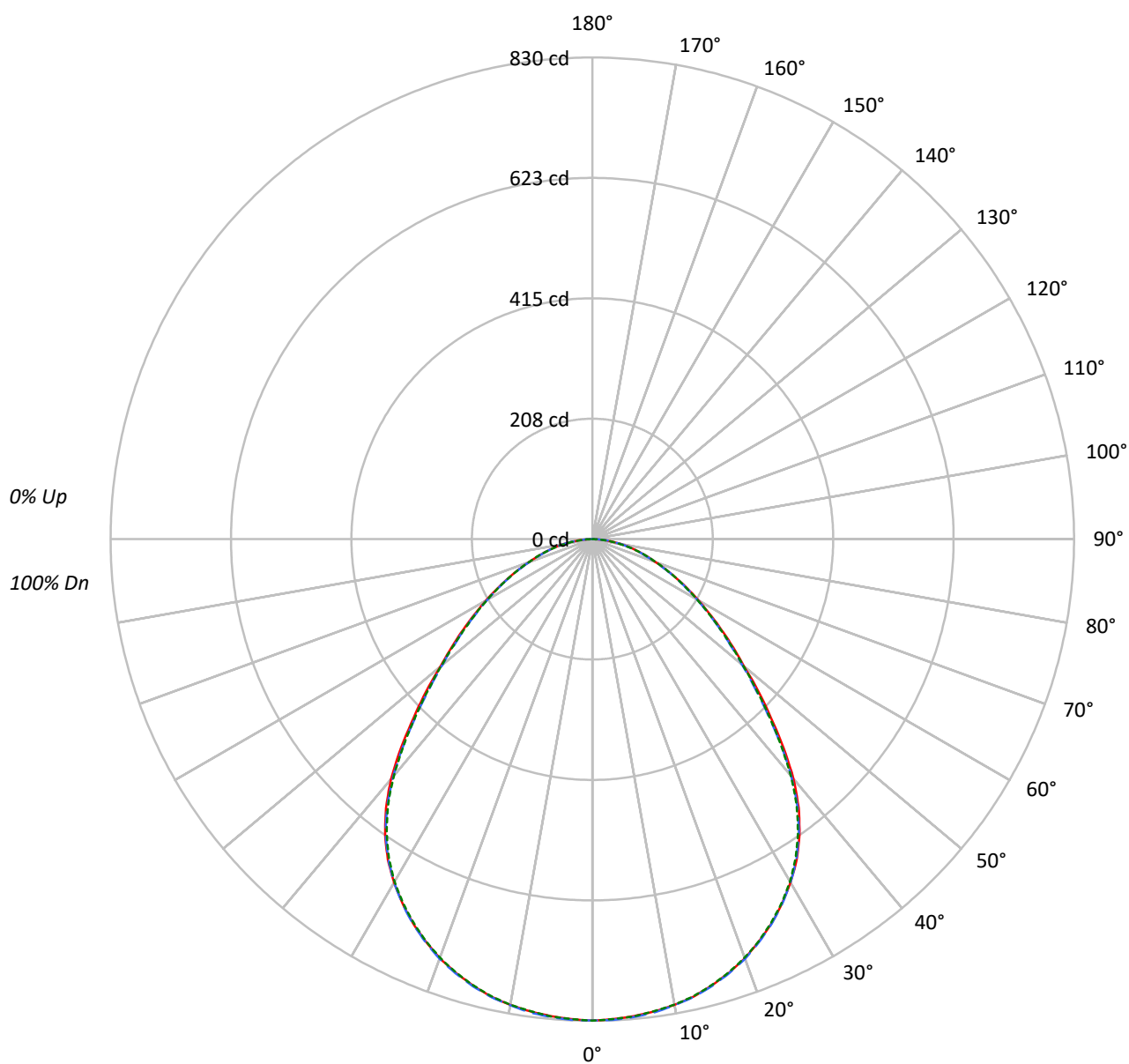
Lumens per Lamp: N/A
Luminaire Lumens: 1869.5 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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: P1050795

CATALOG NUMBER: 24PTR-20-PLG-L840-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1050795

CATALOG NUMBER: 24PTR-20-PLG-L840-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	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°	1116	1116	1116
5°	1114	1117	1115
10°	1113	1114	1113
15°	1109	1111	1108
20°	1100	1102	1099
25°	1085	1086	1082
30°	1061	1061	1058
35°	1022	1019	1015
40°	947	937	934
45°	828	815	818
50°	715	706	710
55°	635	626	627
60°	569	561	561
65°	510	506	508
70°	459	454	459
75°	425	420	425
80°	397	392	379
85°	337	337	299

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 828 cd/sqm

TEST NUMBER: P1050795

CATALOG NUMBER: 24PTR-20-PLG-L840-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.6	4.2
10°-20°	224.8	12.0
20°-30°	336.3	18.0
30°-40°	385.3	20.6
40°-50°	333.3	17.8
50°-60°	241.2	12.9
60°-70°	158.9	8.5
70°-80°	86.5	4.6
80°-90°	24.8	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°	639.6	34.2
0°-40°	1025.0	54.8
0°-60°	1599.4	85.6
0°-90°	1869.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1869.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	830	830	830	830	830	
5°	825	827	827	827	826	78
15°	796	797	797	798	796	225
25°	731	731	731	732	729	336
35°	622	622	621	620	618	387
45°	435	434	428	428	430	337
55°	271	270	267	265	267	244
65°	160	161	159	158	160	160
75°	82	82	81	81	82	87
85°	22	22	22	22	19	25
90°	0	0	0	0	0	

TEST NUMBER: P1050795

CATALOG NUMBER: 24PTR-20-PLG-L840-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	829.7	829.7	829.7	829.7	829.7
2.5°	827.9	829.7	829.1	829.7	827.9
5°	825.0	826.7	826.7	826.7	825.6
7.5°	820.9	822.0	822.6	823.2	820.3
10°	815.0	816.1	815.6	816.7	814.4
12.5°	807.3	807.3	807.9	809.1	806.7
15°	796.1	796.7	797.3	798.5	795.5
17.5°	783.2	783.8	784.3	784.9	782.6
20°	768.4	768.4	769.6	770.2	767.3
22.5°	750.2	750.2	751.4	753.1	749.6
25°	730.8	730.8	731.3	731.9	729.0
27.5°	707.8	707.8	708.4	710.1	706.6
30°	683.1	682.5	683.1	683.7	681.3
32.5°	655.4	654.8	654.2	654.8	651.9
35°	622.4	621.8	620.6	620.1	617.7
37.5°	584.1	583.0	580.6	580.6	578.2
40°	539.4	536.4	533.5	532.3	531.7
42.5°	487.6	485.2	481.1	480.5	480.5
45°	435.2	434.0	428.1	427.5	429.9
47.5°	388.0	385.1	379.8	378.6	382.2
50°	341.5	342.1	337.4	335.6	339.2
52.5°	305.0	303.8	299.7	298.5	301.5
55°	270.9	269.7	266.7	265.0	267.3
57.5°	239.7	239.1	236.1	235.5	236.7
60°	211.4	210.8	208.5	207.9	208.5
62.5°	184.9	184.9	182.5	181.4	183.1
65°	160.2	161.3	159.0	157.8	159.6
67.5°	137.8	139.0	136.6	135.4	137.8
70°	116.6	117.8	115.4	114.2	116.6
72.5°	98.3	98.9	97.2	96.6	99.5
75°	81.8	81.8	80.7	80.7	81.8
77.5°	66.5	66.0	65.4	65.4	64.2
80°	51.2	50.6	50.6	50.6	48.9
82.5°	36.5	35.3	35.9	36.5	33.6
85°	21.8	21.8	21.8	22.4	19.4
87.5°	8.8	8.8	8.2	8.8	7.7
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)