

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: P1050553

Luminaire Tested: 24PTR-20-PB1-L835-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050553
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737703)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-20-PB1-L835-UNV-STD-W
Description: 2000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

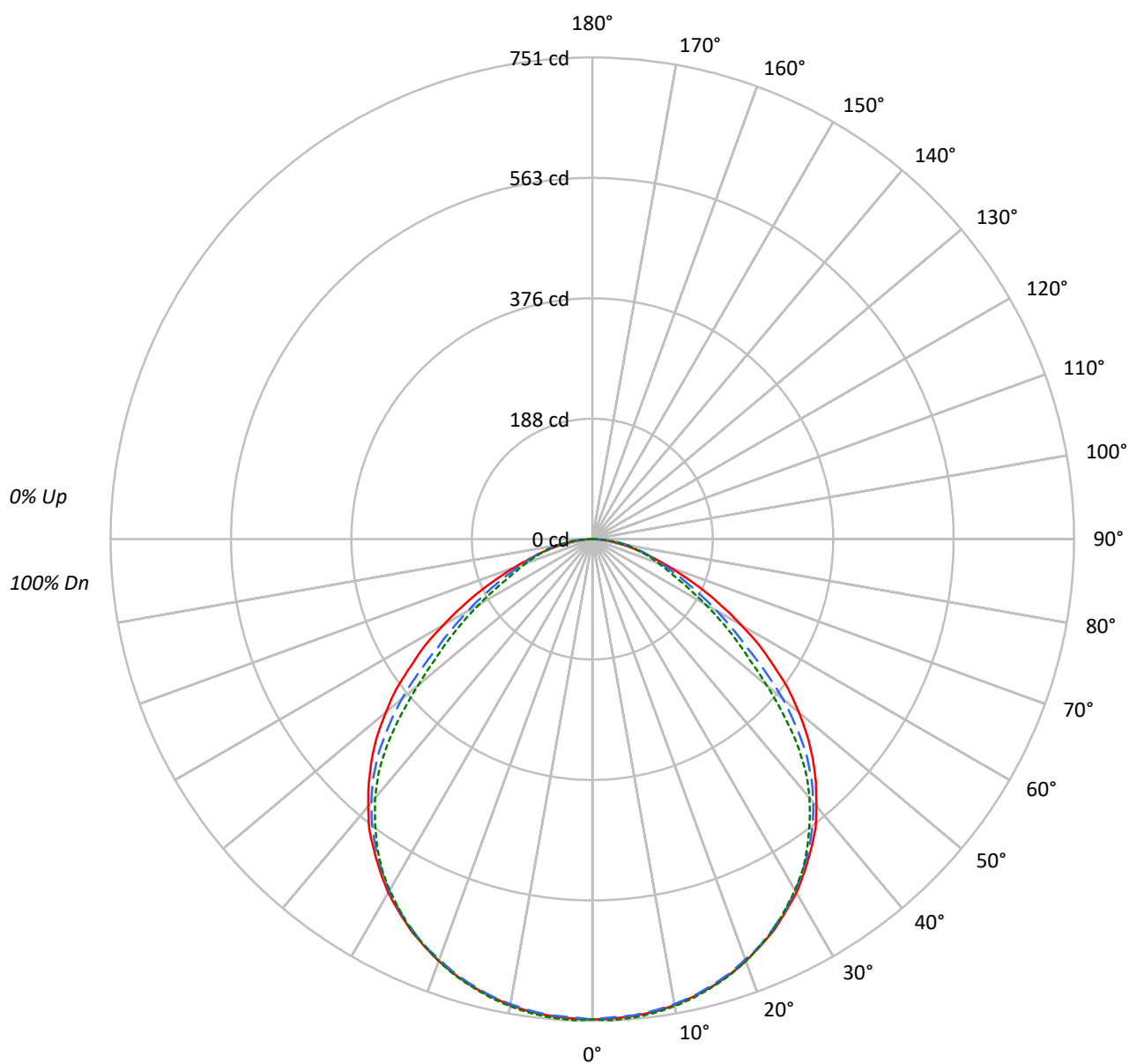
Lumens per Lamp: N/A
Luminaire Lumens: 1867.3 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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: P1050553

CATALOG NUMBER: 24PTR-20-PB1-L835-UNV-STD-W

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	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64	62		
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54		
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47		
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42		
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37		
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	33		
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30		
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1008	1008	1008
5°	1008	1006	1011
10°	1008	1006	1010
15°	1006	1003	1007
20°	1002	998	1002
25°	997	993	995
30°	989	983	982
35°	974	967	961
40°	954	942	925
45°	925	895	859
50°	879	812	742
55°	810	689	639
60°	721	603	548
65°	619	522	466
70°	511	460	428
75°	431	440	417
80°	364	449	428
85°	286	455	398

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 925 cd/sqm

TEST NUMBER: P1050553

CATALOG NUMBER: 24PTR-20-PB1-L835-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.0	3.8
10°-20°	203.7	10.9
20°-30°	308.6	16.5
30°-40°	367.7	19.7
40°-50°	359.6	19.3
50°-60°	272.0	14.6
60°-70°	167.1	8.9
70°-80°	89.0	4.8
80°-90°	28.4	1.5
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°	583.4	31.2
0°-40°	951.1	50.9
0°-60°	1582.7	84.8
0°-90°	1867.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1867.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	749	749	749	749	749	
5°	746	747	745	748	749	71
15°	722	723	720	723	723	204
25°	672	670	669	670	670	309
35°	593	592	589	586	585	371
45°	486	484	471	455	451	374
55°	345	328	294	277	273	309
65°	194	179	164	151	146	193
75°	83	84	85	82	80	89
85°	18	24	30	28	26	22
90°	0	0	0	0	0	

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CATALOG NUMBER: 24PTR-20-PB1-L835-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	748.8	748.8	748.8	748.8	748.8
2.5°	748.0	748.8	746.0	749.8	750.7
5°	746.0	747.0	745.2	748.0	748.8
7.5°	743.3	743.3	741.5	744.2	745.2
10°	737.8	737.8	736.0	738.7	739.6
12.5°	730.5	730.5	729.5	731.3	732.3
15°	722.1	723.0	720.3	723.0	723.0
17.5°	712.0	711.1	710.2	712.0	713.0
20°	700.0	700.0	697.3	699.1	700.0
22.5°	686.2	686.2	685.3	686.2	685.3
25°	671.5	670.5	668.7	669.6	670.5
27.5°	654.0	654.0	652.1	652.1	651.2
30°	636.5	635.5	632.8	631.0	631.8
32.5°	615.3	614.3	611.6	609.8	610.7
35°	593.1	592.3	588.6	585.8	584.9
37.5°	571.1	568.3	563.7	560.0	556.3
40°	543.4	540.6	536.1	527.8	526.8
42.5°	515.8	513.1	505.6	495.6	492.8
45°	486.3	483.6	470.6	455.0	451.3
47.5°	455.0	450.4	430.1	410.8	403.4
50°	420.1	411.7	387.8	362.9	354.6
52.5°	385.9	371.2	339.9	317.8	309.5
55°	345.4	327.9	293.9	277.2	272.6
57.5°	309.5	285.6	257.9	241.4	237.7
60°	268.0	245.9	223.9	209.1	203.6
62.5°	230.2	210.9	192.5	179.6	173.2
65°	194.4	178.7	164.0	151.0	146.5
67.5°	159.4	151.0	139.1	129.0	126.2
70°	129.9	125.2	117.0	112.4	108.7
72.5°	103.2	105.0	99.5	97.7	94.9
75°	82.9	83.8	84.7	82.0	80.2
77.5°	62.7	67.2	70.9	69.0	67.2
80°	47.0	51.5	58.0	55.3	55.3
82.5°	32.2	37.8	43.3	41.5	40.5
85°	18.5	24.0	29.5	27.7	25.8
87.5°	7.3	12.0	12.9	12.9	12.0
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)