

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: P1050793

Luminaire Tested: 24PTR-100-PLG-L835-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050793
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-100-PLG-L835-UNV-STD-W
Description: 10000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

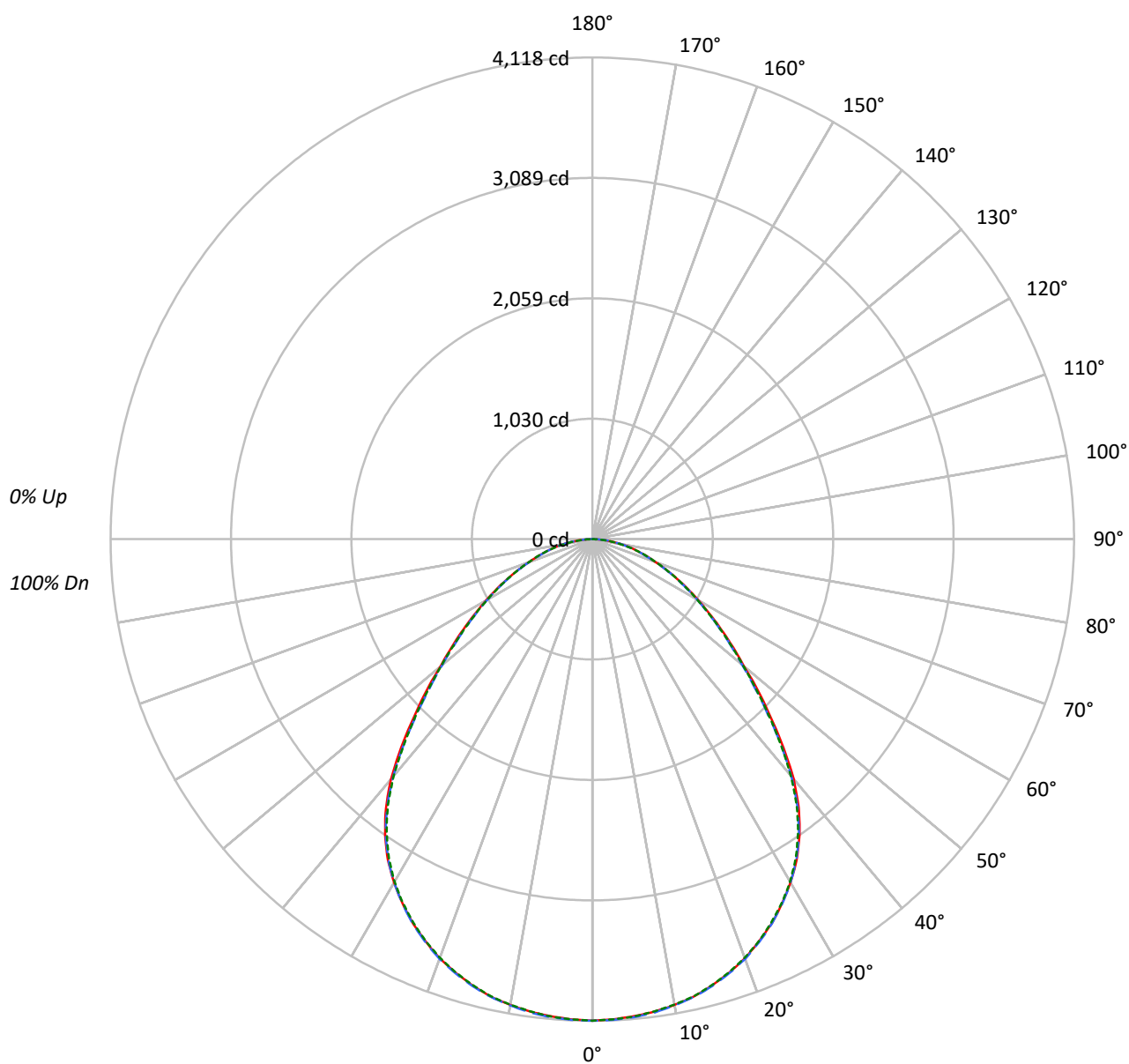
Lumens per Lamp: N/A
Luminaire Lumens: 9278.0 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 85
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: P1050793

CATALOG NUMBER: 24PTR-100-PLG-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	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°	5540	5540	5540
5°	5530	5541	5534
10°	5526	5530	5522
15°	5504	5512	5500
20°	5460	5469	5452
25°	5384	5388	5371
30°	5267	5267	5253
35°	5074	5059	5035
40°	4702	4650	4635
45°	4109	4043	4059
50°	3548	3505	3524
55°	3153	3105	3112
60°	2823	2784	2784
65°	2531	2512	2521
70°	2276	2253	2276
75°	2112	2082	2112
80°	1970	1947	1880
85°	1669	1669	1488

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4109 cd/sqm

TEST NUMBER: P1050793

CATALOG NUMBER: 24PTR-100-PLG-L835-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.8	4.2
10°-20°	1115.5	12.0
20°-30°	1669.1	18.0
30°-40°	1912.3	20.6
40°-50°	1653.9	17.8
50°-60°	1197.0	12.9
60°-70°	788.4	8.5
70°-80°	429.2	4.6
80°-90°	123.0	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°	3174.4	34.2
0°-40°	5086.6	54.8
0°-60°	7937.5	85.6
0°-90°	9278.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9278.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4118	4118	4118	4118	4118	
5°	4094	4103	4103	4103	4097	389
15°	3951	3954	3957	3963	3948	1114
25°	3627	3627	3630	3632	3618	1668
35°	3089	3086	3080	3077	3066	1919
45°	2160	2154	2124	2122	2133	1672
55°	1344	1338	1324	1315	1327	1210
65°	795	801	789	783	792	794
75°	406	406	400	400	406	433
85°	108	108	108	111	96	125
90°	0	0	0	0	0	

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CATALOG NUMBER: 24PTR-100-PLG-L835-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4117.6	4117.6	4117.6	4117.6	4117.6
2.5°	4108.8	4117.6	4114.6	4117.6	4108.8
5°	4094.2	4102.9	4102.9	4102.9	4097.1
7.5°	4073.7	4079.6	4082.5	4085.4	4070.8
10°	4044.5	4050.3	4047.4	4053.3	4041.6
12.5°	4006.5	4006.5	4009.4	4015.3	4003.6
15°	3951.0	3953.9	3956.8	3962.7	3948.1
17.5°	3886.7	3889.6	3892.5	3895.5	3883.8
20°	3813.6	3813.6	3819.5	3822.4	3807.8
22.5°	3723.0	3723.0	3728.9	3737.6	3720.1
25°	3626.6	3626.6	3629.5	3632.4	3617.8
27.5°	3512.6	3512.6	3515.6	3524.3	3506.8
30°	3389.9	3387.0	3389.9	3392.8	3381.1
32.5°	3252.5	3249.6	3246.7	3249.6	3235.0
35°	3088.9	3086.0	3080.1	3077.2	3065.5
37.5°	2898.9	2893.1	2881.4	2881.4	2869.7
40°	2676.8	2662.2	2647.6	2641.8	2638.9
42.5°	2419.7	2408.0	2387.5	2384.6	2384.6
45°	2159.6	2153.8	2124.5	2121.6	2133.3
47.5°	1925.8	1911.2	1884.9	1879.1	1896.6
50°	1694.9	1697.9	1674.5	1665.7	1683.3
52.5°	1513.8	1507.9	1487.5	1481.6	1496.2
55°	1344.3	1338.4	1323.8	1315.0	1326.7
57.5°	1189.4	1186.5	1171.9	1168.9	1174.8
60°	1049.1	1046.2	1034.5	1031.6	1034.5
62.5°	917.6	917.6	905.9	900.1	908.8
65°	794.9	800.7	789.0	783.2	791.9
67.5°	683.8	689.7	678.0	672.1	683.8
70°	578.6	584.5	572.8	566.9	578.6
72.5°	488.0	491.0	482.2	479.3	493.9
75°	406.2	406.2	400.4	400.4	406.2
77.5°	330.2	327.3	324.4	324.4	318.5
80°	254.2	251.3	251.3	251.3	242.6
82.5°	181.2	175.3	178.3	181.2	166.6
85°	108.1	108.1	108.1	111.0	96.4
87.5°	43.8	43.8	40.9	43.8	38.0
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)