

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: P1050563

Luminaire Tested: 24PTR-90-PB1-L835-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050563
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-90-PB1-L835-UNV-STD-W
Description: 9000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

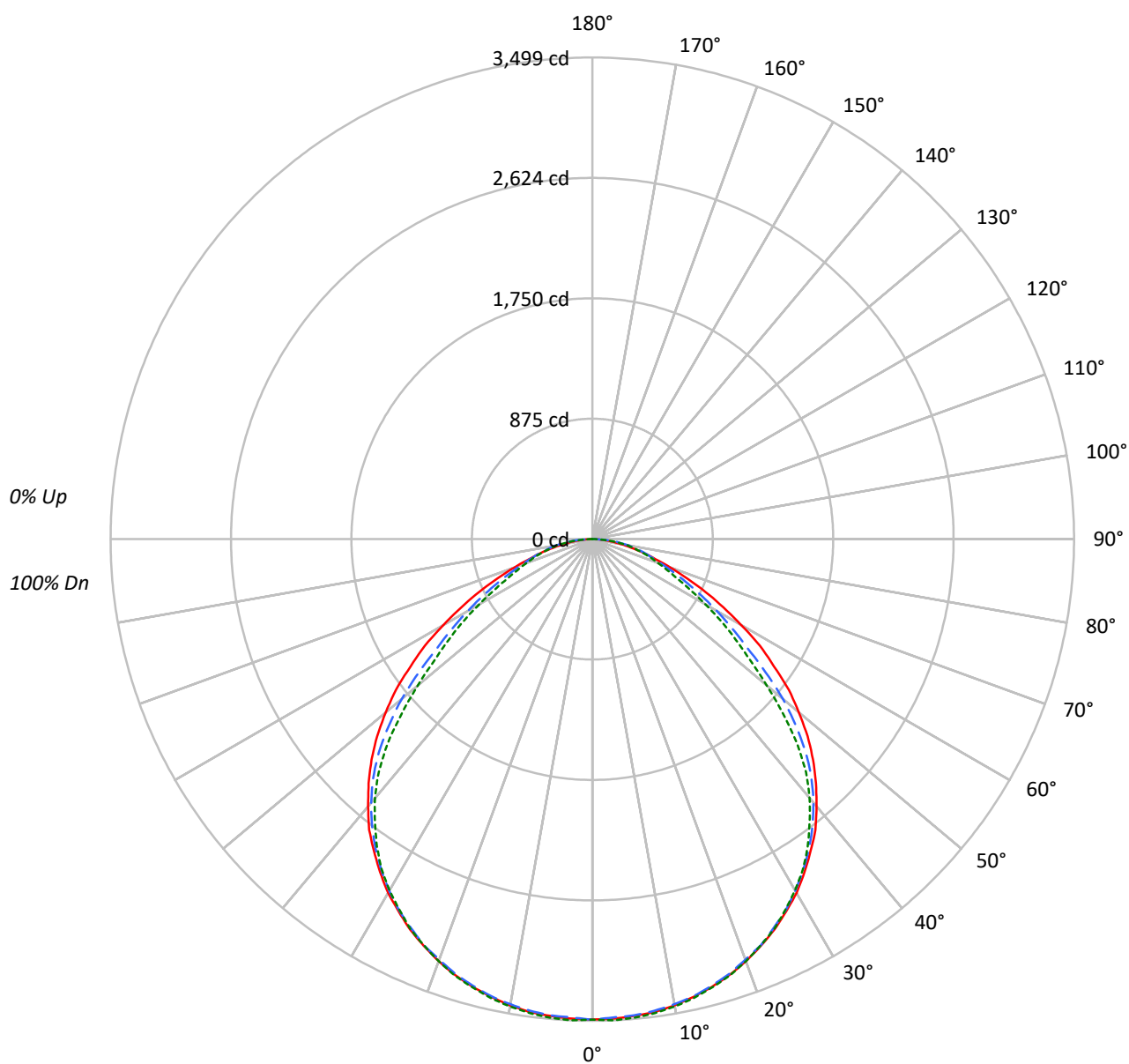
Lumens per Lamp: N/A
Luminaire Lumens: 8703.8 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 76
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: P1050563

CATALOG NUMBER: 24PTR-90-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°	4696	4696	4696
5°	4697	4691	4714
10°	4699	4687	4710
15°	4689	4677	4695
20°	4672	4654	4672
25°	4647	4627	4640
30°	4609	4583	4576
35°	4541	4507	4478
40°	4449	4389	4313
45°	4313	4174	4003
50°	4099	3783	3460
55°	3777	3213	2981
60°	3362	2808	2553
65°	2884	2434	2174
70°	2381	2146	1993
75°	2008	2052	1943
80°	1698	2095	1998
85°	1329	2123	1857

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4313 cd/sqm

TEST NUMBER: P1050563

CATALOG NUMBER: 24PTR-90-PB1-L835-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.0	3.8
10°-20°	949.7	10.9
20°-30°	1438.6	16.5
30°-40°	1714.1	19.7
40°-50°	1676.2	19.3
50°-60°	1267.9	14.6
60°-70°	779.0	8.9
70°-80°	415.0	4.8
80°-90°	132.4	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°	2719.2	31.2
0°-40°	4433.3	50.9
0°-60°	7377.4	84.8
0°-90°	8703.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8703.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3490	3490	3490	3490	3490	
5°	3478	3482	3473	3486	3490	331
15°	3366	3370	3358	3370	3370	950
25°	3130	3125	3117	3121	3125	1441
35°	2765	2761	2744	2731	2726	1729
45°	2267	2254	2194	2121	2104	1744
55°	1610	1528	1370	1292	1271	1442
65°	906	833	764	704	683	901
75°	386	391	395	382	374	414
85°	86	112	138	129	120	103
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3490.5	3490.5	3490.5	3490.5	3490.5
2.5°	3486.5	3490.5	3477.5	3495.0	3499.1
5°	3477.5	3482.0	3473.4	3486.5	3490.5
7.5°	3464.8	3464.8	3456.3	3468.9	3473.4
10°	3439.1	3439.1	3430.6	3443.2	3447.7
12.5°	3404.9	3404.9	3400.4	3408.9	3413.5
15°	3366.1	3370.2	3357.6	3370.2	3370.2
17.5°	3318.8	3314.7	3310.2	3318.8	3323.3
20°	3262.9	3262.9	3250.3	3258.9	3262.9
22.5°	3198.5	3198.5	3194.4	3198.5	3194.4
25°	3129.9	3125.4	3116.9	3121.4	3125.4
27.5°	3048.4	3048.4	3039.8	3039.8	3035.3
30°	2966.8	2962.3	2949.6	2941.1	2945.1
32.5°	2868.1	2863.6	2850.9	2842.4	2846.4
35°	2764.8	2760.8	2743.7	2730.6	2726.5
37.5°	2662.1	2649.0	2627.4	2610.2	2593.1
40°	2533.2	2520.1	2498.9	2460.1	2455.6
42.5°	2404.2	2391.6	2356.9	2310.0	2297.0
45°	2266.8	2254.2	2193.8	2120.7	2103.6
47.5°	2120.7	2099.5	2004.9	1914.7	1880.5
50°	1958.0	1919.3	1807.5	1691.6	1652.9
52.5°	1798.9	1730.4	1584.4	1481.1	1442.8
55°	1610.0	1528.5	1369.8	1292.3	1270.6
57.5°	1442.8	1331.0	1202.1	1125.0	1107.9
60°	1249.5	1146.2	1043.5	974.5	948.8
62.5°	1073.2	983.1	897.4	837.0	807.3
65°	906.0	833.0	764.5	704.1	682.9
67.5°	742.8	704.1	648.2	601.3	588.2
70°	605.3	583.7	545.4	523.8	506.6
72.5°	480.9	489.5	463.8	455.2	442.2
75°	386.3	390.8	394.8	382.2	373.7
77.5°	292.1	313.3	330.4	321.8	313.3
80°	219.1	240.2	270.4	257.8	257.8
82.5°	150.1	176.2	201.9	193.4	188.9
85°	86.1	111.8	137.5	128.9	120.3
87.5°	34.3	55.9	59.9	59.9	55.9
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)