

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: P1050943

Luminaire Tested: 24PTR-50-PR1-L835-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050943
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737735)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-50-PR1-L835-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND RIPPLE LENS

Light Source:
Ballast/Driver: -

Summary

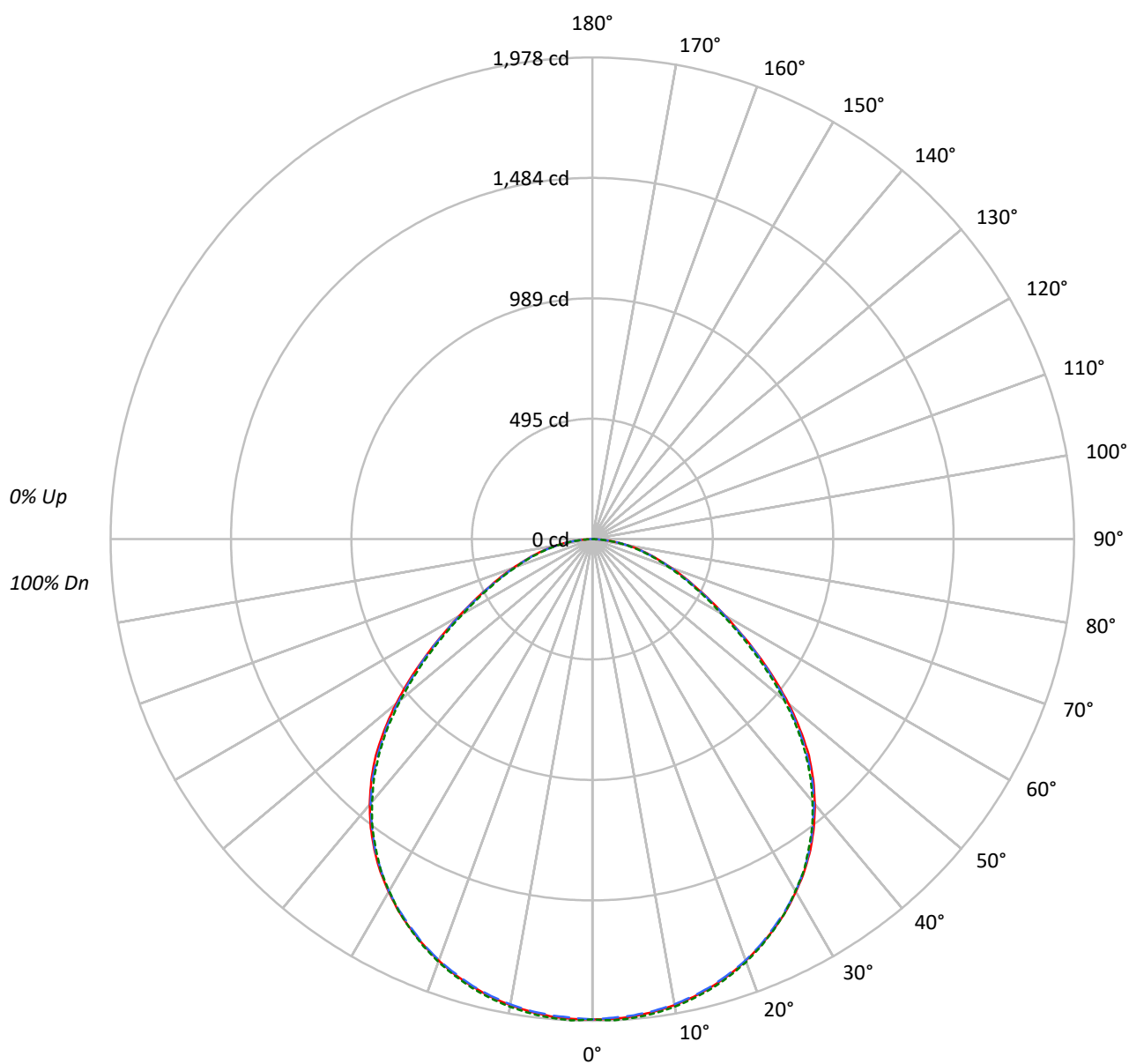
Lumens per Lamp: N/A
Luminaire Lumens: 4988.7 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41
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

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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	92	90	91	89	88	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62		
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54		
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	47		
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41		
7	67	54	45	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37		
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33		
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30		
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2654	2654	2654
5°	2657	2651	2665
10°	2654	2650	2664
15°	2649	2645	2658
20°	2638	2635	2645
25°	2621	2615	2624
30°	2598	2595	2591
35°	2562	2556	2546
40°	2497	2487	2470
45°	2393	2366	2349
50°	2202	2177	2150
55°	1949	1940	1902
60°	1694	1688	1642
65°	1493	1484	1454
70°	1354	1335	1308
75°	1254	1225	1202
80°	1144	1129	1091
85°	905	897	860

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2393 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.1	3.8
10°-20°	537.1	10.8
20°-30°	813.6	16.3
30°-40°	971.3	19.5
40°-50°	955.2	19.1
50°-60°	738.3	14.8
60°-70°	465.5	9.3
70°-80°	251.8	5.0
80°-90°	68.8	1.4
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°	1537.8	30.8
0°-40°	2509.1	50.3
0°-60°	4202.6	84.2
0°-90°	4988.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4988.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1973	1973	1973	1973	1973	
5°	1967	1968	1963	1971	1973	187
15°	1902	1902	1899	1905	1908	537
25°	1766	1767	1761	1767	1768	814
35°	1560	1560	1556	1554	1550	974
45°	1258	1253	1244	1234	1235	963
55°	831	838	827	814	811	746
65°	469	470	466	458	457	472
75°	241	238	236	237	231	256
85°	59	59	58	59	56	70
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1972.6	1972.6	1972.6	1972.6	1972.6
2.5°	1971.8	1972.6	1967.0	1976.2	1978.3
5°	1967.0	1967.7	1962.6	1971.1	1973.4
7.5°	1956.9	1958.5	1953.6	1962.1	1964.1
10°	1942.8	1944.4	1939.5	1947.9	1950.0
12.5°	1925.3	1925.9	1921.7	1929.5	1931.5
15°	1902.0	1902.5	1899.1	1905.3	1908.1
17.5°	1875.0	1875.8	1870.9	1878.6	1879.9
20°	1842.6	1843.1	1840.3	1846.7	1847.5
22.5°	1806.4	1807.9	1803.6	1809.2	1810.0
25°	1765.6	1766.8	1761.2	1766.8	1767.6
27.5°	1722.4	1722.9	1718.0	1722.4	1721.6
30°	1672.1	1676.4	1670.0	1668.5	1667.9
32.5°	1619.9	1620.4	1614.3	1612.7	1615.5
35°	1559.8	1560.3	1556.2	1554.1	1549.8
37.5°	1494.0	1494.0	1486.1	1484.8	1484.0
40°	1421.9	1421.1	1416.2	1411.3	1406.2
42.5°	1343.2	1344.8	1334.8	1326.3	1325.0
45°	1257.7	1252.8	1243.6	1233.8	1234.6
47.5°	1156.7	1158.0	1145.4	1137.5	1135.4
50°	1051.9	1051.9	1040.1	1031.6	1027.3
52.5°	942.5	943.3	932.0	920.7	918.4
55°	830.8	837.7	827.2	813.8	811.0
57.5°	726.2	731.9	721.8	707.7	706.9
60°	629.4	629.9	627.1	613.7	610.1
62.5°	546.6	543.1	541.5	534.6	530.2
65°	468.8	469.6	466.0	458.0	456.7
67.5°	405.9	405.1	398.7	393.8	391.0
70°	344.2	342.2	339.3	335.2	332.4
72.5°	289.3	289.3	286.9	285.7	280.8
75°	241.2	238.4	235.6	236.8	231.2
77.5°	195.2	192.4	190.1	187.3	186.0
80°	147.7	144.9	145.7	141.3	140.8
82.5°	102.5	102.5	101.2	97.6	98.4
85°	58.6	59.3	58.1	58.6	55.7
87.5°	21.3	21.8	23.4	21.8	21.8
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)