

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: P1050558

Luminaire Tested: 24PTR-50-PB1-L835-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050558
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-50-PB1-L835-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

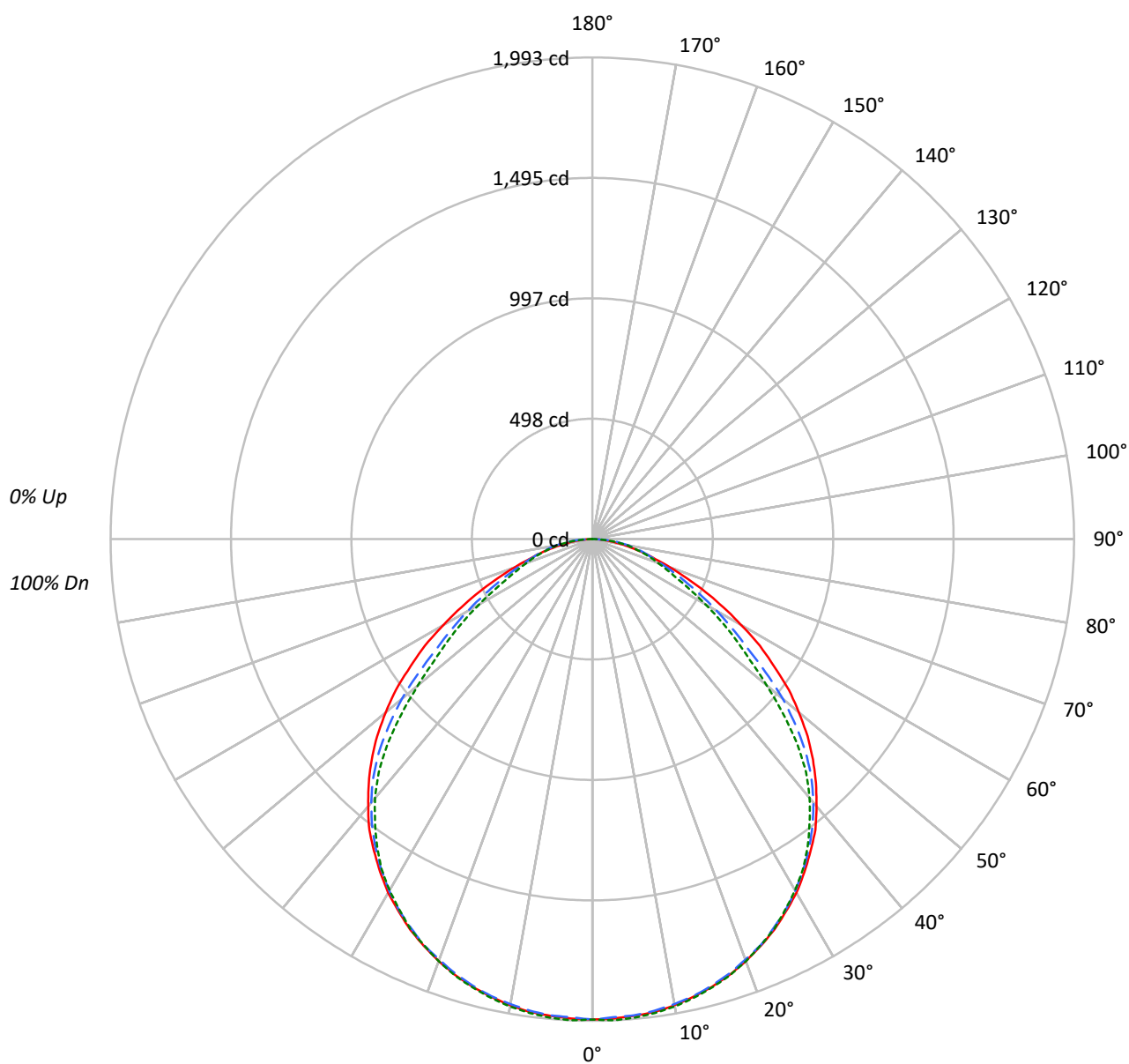
Lumens per Lamp: N/A
Luminaire Lumens: 4956.7 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	88	88	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	75	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64	64	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	56	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	49	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	44	44	42
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	39	39	37
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	35	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	32	32	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	29	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2675	2675	2675
5°	2675	2672	2685
10°	2676	2669	2682
15°	2670	2663	2673
20°	2661	2650	2661
25°	2646	2635	2642
30°	2625	2610	2606
35°	2586	2566	2550
40°	2534	2500	2456
45°	2456	2377	2280
50°	2334	2155	1970
55°	2151	1830	1697
60°	1915	1599	1454
65°	1642	1386	1238
70°	1356	1222	1135
75°	1144	1169	1106
80°	967	1193	1137
85°	756	1209	1057

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2456 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.5	3.8
10°-20°	540.8	10.9
20°-30°	819.2	16.5
30°-40°	976.2	19.7
40°-50°	954.6	19.3
50°-60°	722.0	14.6
60°-70°	443.6	8.9
70°-80°	236.3	4.8
80°-90°	75.4	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°	1548.5	31.2
0°-40°	2524.7	50.9
0°-60°	4201.4	84.8
0°-90°	4956.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4956.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1988	1988	1988	1988	1988	
5°	1980	1983	1978	1986	1988	188
15°	1917	1919	1912	1919	1919	541
25°	1782	1780	1775	1778	1780	821
35°	1574	1572	1562	1555	1553	985
45°	1291	1284	1249	1208	1198	993
55°	917	870	780	736	724	821
65°	516	474	435	401	389	513
75°	220	223	225	218	213	236
85°	49	64	78	73	68	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1987.8	1987.8	1987.8	1987.8	1987.8
2.5°	1985.5	1987.8	1980.4	1990.4	1992.7
5°	1980.4	1982.9	1978.1	1985.5	1987.8
7.5°	1973.2	1973.2	1968.3	1975.5	1978.1
10°	1958.5	1958.5	1953.7	1960.9	1963.4
12.5°	1939.0	1939.0	1936.5	1941.3	1943.9
15°	1917.0	1919.3	1912.1	1919.3	1919.3
17.5°	1890.0	1887.7	1885.1	1890.0	1892.6
20°	1858.2	1858.2	1851.0	1855.9	1858.2
22.5°	1821.5	1821.5	1819.2	1821.5	1819.2
25°	1782.5	1779.9	1775.0	1777.6	1779.9
27.5°	1736.0	1736.0	1731.1	1731.1	1728.6
30°	1689.5	1687.0	1679.8	1674.9	1677.2
32.5°	1633.3	1630.8	1623.6	1618.7	1621.0
35°	1574.5	1572.2	1562.5	1555.0	1552.7
37.5°	1516.0	1508.6	1496.2	1486.5	1476.7
40°	1442.6	1435.2	1423.1	1401.0	1398.4
42.5°	1369.2	1362.0	1342.2	1315.5	1308.1
45°	1290.9	1283.7	1249.3	1207.7	1198.0
47.5°	1207.7	1195.7	1141.8	1090.4	1070.9
50°	1115.1	1093.0	1029.3	963.4	941.3
52.5°	1024.5	985.4	902.3	843.5	821.7
55°	916.9	870.4	780.1	735.9	723.6
57.5°	821.7	758.0	684.6	640.7	630.9
60°	711.5	652.8	594.2	555.0	540.3
62.5°	611.2	559.8	511.1	476.7	459.7
65°	515.9	474.4	435.3	401.0	388.9
67.5°	423.0	401.0	369.1	342.4	335.0
70°	344.7	332.4	310.6	298.3	288.5
72.5°	273.9	278.8	264.1	259.3	251.8
75°	220.0	222.6	224.9	217.7	212.8
77.5°	166.3	178.4	188.2	183.3	178.4
80°	124.8	136.8	154.0	146.8	146.8
82.5°	85.5	100.4	115.0	110.1	107.6
85°	49.0	63.7	78.3	73.4	68.5
87.5°	19.5	31.8	34.1	34.1	31.8
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)