

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: P1051020

Luminaire Tested: 24PTR-50-PW1-L835-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1051020
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737743)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-50-PW1-L835-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND WAVES LENS

Light Source:
Ballast/Driver: -

Summary

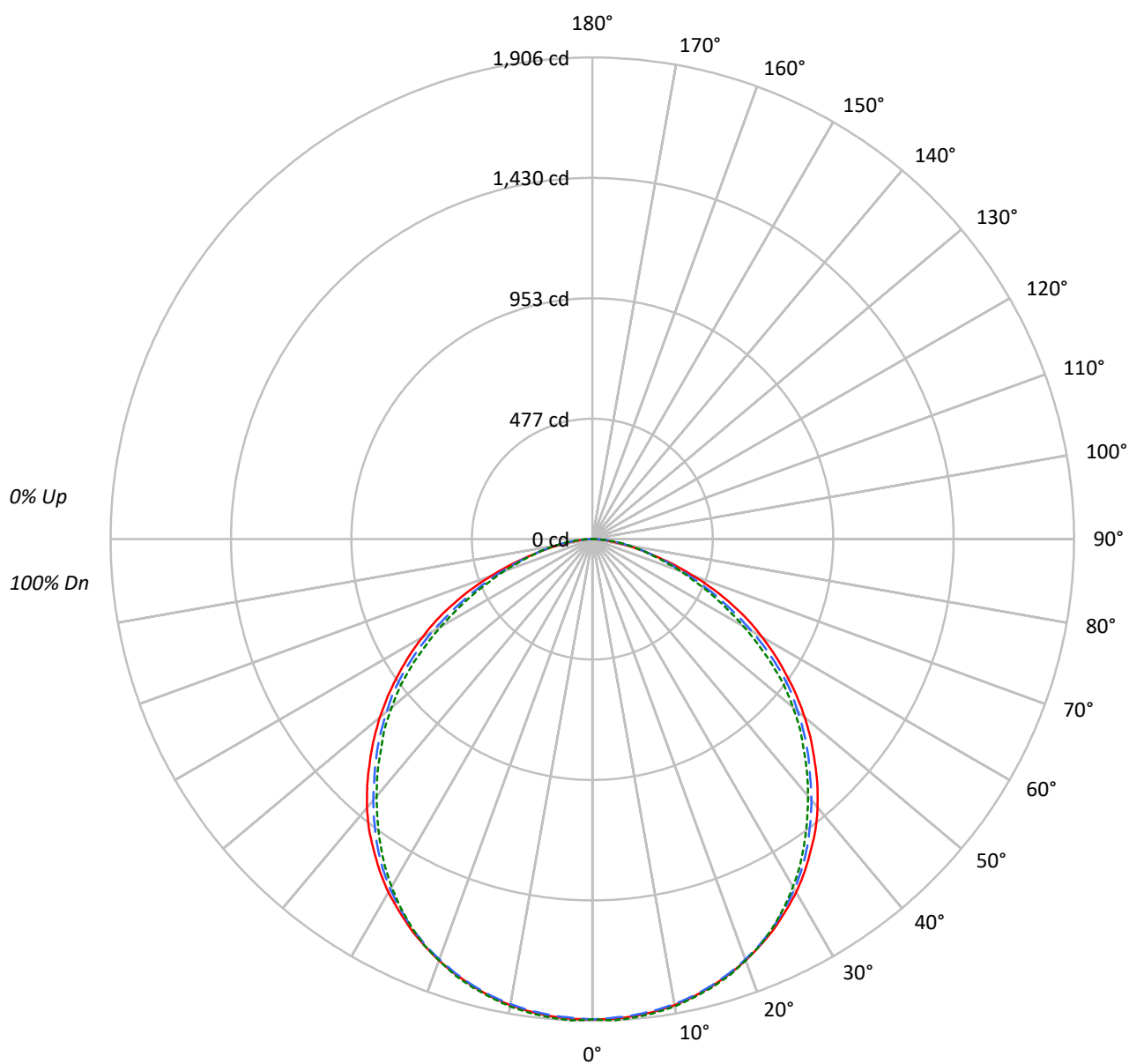
Lumens per Lamp: N/A
Luminaire Lumens: 5044.0 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	87	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	74	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	63	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	54	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	42	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	37	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	33	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	30	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	27	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2557	2557	2557
5°	2559	2554	2567
10°	2558	2553	2565
15°	2551	2547	2556
20°	2540	2534	2540
25°	2526	2515	2514
30°	2507	2485	2467
35°	2473	2436	2405
40°	2435	2369	2331
45°	2368	2298	2251
50°	2296	2222	2170
55°	2201	2126	2042
60°	2087	1963	1861
65°	1930	1753	1666
70°	1673	1526	1469
75°	1336	1306	1271
80°	1015	1134	1134
85°	750	968	968

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2368 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.2	3.6
10°-20°	517.0	10.3
20°-30°	781.4	15.5
30°-40°	927.8	18.4
40°-50°	934.7	18.5
50°-60°	808.0	16.0
60°-70°	552.2	10.9
70°-80°	272.3	5.4
80°-90°	70.4	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°	1478.6	29.3
0°-40°	2406.4	47.7
0°-60°	4149.1	82.3
0°-90°	5044.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5044.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1901	1901	1901	1901	1901	
5°	1895	1896	1891	1899	1901	180
15°	1831	1833	1828	1835	1835	517
25°	1702	1700	1694	1696	1693	784
35°	1506	1501	1483	1470	1464	943
45°	1244	1231	1208	1194	1183	960
55°	938	935	906	880	870	839
65°	606	584	551	527	523	599
75°	257	255	251	251	244	280
85°	49	57	63	64	63	60
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1900.7	1900.7	1900.7	1900.7	1900.7
2.5°	1900.2	1900.7	1895.8	1904.2	1906.3
5°	1895.0	1895.8	1890.9	1898.6	1900.7
7.5°	1886.1	1887.4	1881.7	1889.4	1890.9
10°	1872.5	1873.3	1868.4	1876.1	1877.6
12.5°	1854.3	1854.9	1850.8	1857.7	1857.7
15°	1831.1	1833.1	1828.2	1834.6	1835.2
17.5°	1805.0	1805.7	1800.9	1807.8	1809.3
20°	1774.0	1774.0	1769.9	1775.5	1774.0
22.5°	1739.4	1739.4	1734.6	1737.4	1738.7
25°	1701.6	1700.0	1694.4	1695.9	1693.1
27.5°	1657.8	1657.8	1647.8	1647.8	1643.0
30°	1613.5	1609.9	1599.5	1593.1	1588.2
32.5°	1562.6	1557.7	1544.4	1533.2	1529.6
35°	1505.8	1500.7	1483.0	1469.7	1464.1
37.5°	1450.8	1439.5	1416.2	1402.9	1396.5
40°	1386.5	1372.5	1348.7	1330.2	1327.4
42.5°	1317.7	1306.4	1275.5	1261.9	1258.6
45°	1244.5	1230.9	1207.7	1193.6	1183.1
47.5°	1172.6	1162.6	1136.0	1119.1	1115.5
50°	1097.1	1088.7	1061.3	1043.1	1036.7
52.5°	1019.0	1013.4	990.1	966.8	959.2
55°	938.2	935.4	906.4	879.6	870.4
57.5°	858.6	855.0	818.9	788.0	779.5
60°	775.4	764.9	729.6	700.7	691.5
62.5°	696.6	674.1	635.9	613.4	602.9
65°	606.3	584.5	550.7	526.7	523.3
67.5°	517.7	491.6	465.5	450.7	439.4
70°	425.3	407.7	388.0	375.4	373.4
72.5°	339.3	326.8	316.8	309.1	302.7
75°	256.9	254.9	251.3	251.3	244.4
77.5°	188.9	193.7	196.5	195.8	197.3
80°	131.0	140.8	146.4	147.1	146.4
82.5°	83.2	94.4	103.6	104.9	106.5
85°	48.6	57.1	62.7	64.0	62.7
87.5°	21.8	27.4	28.9	30.2	28.9
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)