

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: P1051018

Luminaire Tested: 24PTR-40-PW1-L835-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1051018
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-40-PW1-L835-UNV-STD-W
Description: 4000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND WAVES LENS

Light Source:
Ballast/Driver: -

Summary

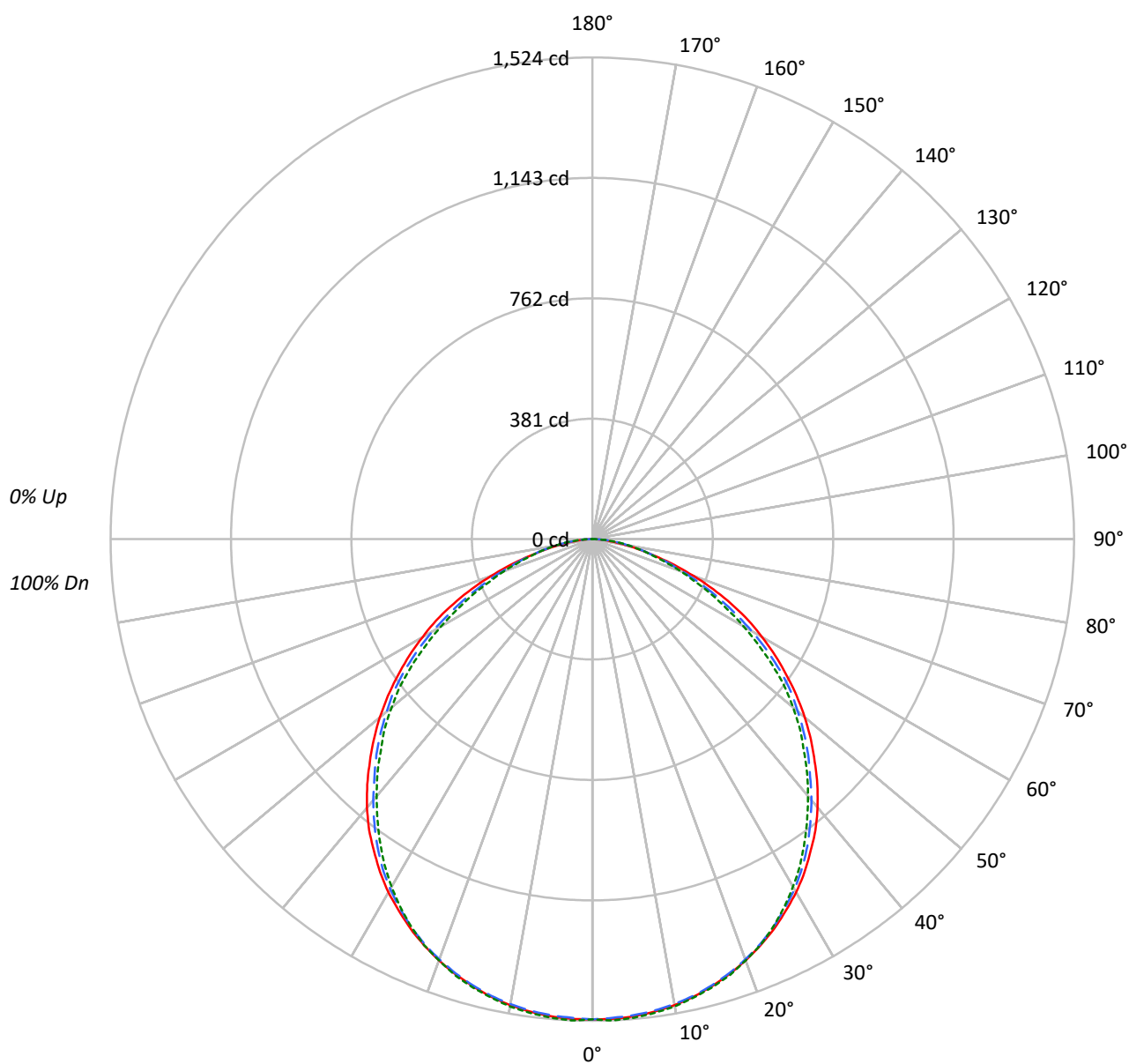
Lumens per Lamp: N/A
Luminaire Lumens: 4033.2 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33
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°	2045	2045	2045
5°	2047	2042	2053
10°	2046	2041	2051
15°	2039	2036	2044
20°	2031	2026	2031
25°	2020	2011	2010
30°	2005	1987	1973
35°	1978	1948	1923
40°	1947	1894	1864
45°	1893	1838	1800
50°	1836	1776	1735
55°	1760	1700	1633
60°	1668	1570	1488
65°	1543	1402	1332
70°	1338	1220	1175
75°	1068	1044	1016
80°	812	907	907
85°	601	773	773

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1893 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.1	3.6
10°-20°	413.4	10.2
20°-30°	624.8	15.5
30°-40°	741.9	18.4
40°-50°	747.4	18.5
50°-60°	646.1	16.0
60°-70°	441.6	10.9
70°-80°	217.7	5.4
80°-90°	56.3	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°	1182.3	29.3
0°-40°	1924.2	47.7
0°-60°	3317.7	82.3
0°-90°	4033.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4033.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1520	1520	1520	1520	1520	
5°	1515	1516	1512	1518	1520	144
15°	1464	1466	1462	1467	1467	413
25°	1361	1359	1355	1356	1354	627
35°	1204	1200	1186	1175	1171	754
45°	995	984	966	954	946	768
55°	750	748	725	703	696	671
65°	485	467	440	421	418	479
75°	206	204	201	201	195	224
85°	39	46	50	51	50	48
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1519.8	1519.8	1519.8	1519.8	1519.8
2.5°	1519.4	1519.8	1515.9	1522.7	1524.3
5°	1515.3	1515.9	1512.0	1518.2	1519.8
7.5°	1508.1	1509.2	1504.7	1510.8	1512.0
10°	1497.3	1497.9	1494.0	1500.2	1501.4
12.5°	1482.8	1483.2	1479.9	1485.4	1485.4
15°	1464.1	1465.8	1461.9	1467.0	1467.4
17.5°	1443.3	1443.9	1440.0	1445.5	1446.7
20°	1418.5	1418.5	1415.2	1419.7	1418.5
22.5°	1390.9	1390.9	1387.0	1389.2	1390.3
25°	1360.6	1359.4	1354.9	1356.1	1353.8
27.5°	1325.6	1325.6	1317.6	1317.6	1313.7
30°	1290.2	1287.3	1278.9	1273.8	1269.9
32.5°	1249.5	1245.6	1235.0	1225.9	1223.1
35°	1204.1	1200.0	1185.8	1175.2	1170.7
37.5°	1160.1	1151.1	1132.4	1121.8	1116.7
40°	1108.7	1097.4	1078.4	1063.7	1061.4
42.5°	1053.6	1044.6	1019.9	1009.0	1006.4
45°	995.1	984.3	965.7	954.4	946.0
47.5°	937.6	929.6	908.4	894.9	892.0
50°	877.3	870.5	848.6	834.1	829.0
52.5°	814.8	810.3	791.7	773.1	767.0
55°	750.2	747.9	724.8	703.3	696.0
57.5°	686.5	683.7	654.8	630.1	623.3
60°	620.0	611.6	583.4	560.3	552.9
62.5°	557.0	539.0	508.5	490.5	482.1
65°	484.8	467.4	440.4	421.1	418.5
67.5°	414.0	393.1	372.2	360.4	351.4
70°	340.1	326.0	310.2	300.2	298.6
72.5°	271.3	261.3	253.3	247.2	242.1
75°	205.5	203.8	200.9	200.9	195.4
77.5°	151.0	154.9	157.2	156.5	157.8
80°	104.8	112.5	117.0	117.7	117.0
82.5°	66.5	75.5	82.9	83.9	85.1
85°	38.9	45.6	50.1	51.2	50.1
87.5°	17.4	21.9	23.1	24.1	23.1
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)