

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: P1051064

Luminaire Tested: 24PTR-50-PW1-L935-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1051064
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-L935-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 90 CRI LEDS AND WAVES LENS

Light Source:
Ballast/Driver: -

Summary

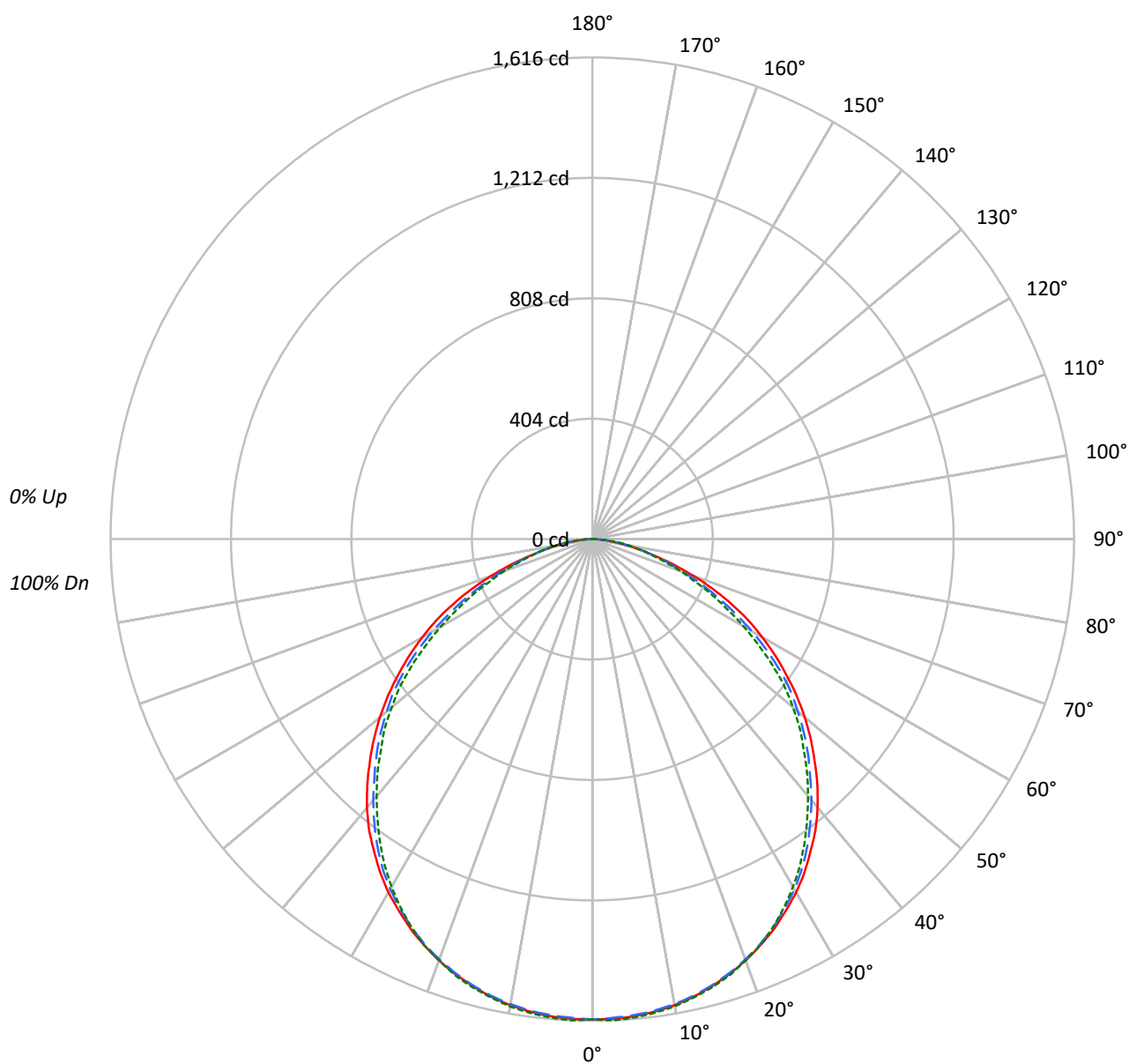
Lumens per Lamp: N/A
Luminaire Lumens: 4276.7 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	100		
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52		
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40		
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35		
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31		
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2168	2168	2168
5°	2170	2165	2177
10°	2169	2164	2175
15°	2163	2159	2167
20°	2154	2149	2154
25°	2142	2133	2131
30°	2126	2107	2092
35°	2097	2065	2039
40°	2065	2008	1977
45°	2008	1948	1909
50°	1947	1883	1840
55°	1866	1803	1731
60°	1769	1665	1578
65°	1636	1487	1413
70°	1419	1294	1245
75°	1133	1108	1077
80°	861	962	962
85°	636	821	821

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2008 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.8	3.6
10°-20°	438.4	10.2
20°-30°	662.5	15.5
30°-40°	786.6	18.4
40°-50°	792.5	18.5
50°-60°	685.1	16.0
60°-70°	468.2	10.9
70°-80°	230.9	5.4
80°-90°	59.7	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°	1253.7	29.3
0°-40°	2040.3	47.7
0°-60°	3517.9	82.3
0°-90°	4276.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4276.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1612	1612	1612	1612	1612	
5°	1607	1607	1603	1610	1612	153
15°	1552	1554	1550	1556	1556	438
25°	1443	1441	1437	1438	1436	665
35°	1277	1272	1257	1246	1241	799
45°	1055	1044	1024	1012	1003	814
55°	796	793	769	746	738	711
65°	514	496	467	447	444	507
75°	218	216	213	213	207	237
85°	41	48	53	54	53	50
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1611.5	1611.5	1611.5	1611.5	1611.5
2.5°	1611.1	1611.5	1607.4	1614.6	1616.3
5°	1606.8	1607.4	1603.3	1609.8	1611.5
7.5°	1599.2	1600.3	1595.5	1602.0	1603.3
10°	1587.7	1588.3	1584.2	1590.7	1592.0
12.5°	1572.3	1572.7	1569.2	1575.1	1575.1
15°	1552.5	1554.3	1550.1	1555.6	1556.0
17.5°	1530.4	1531.0	1526.9	1532.8	1534.1
20°	1504.1	1504.1	1500.7	1505.4	1504.1
22.5°	1474.8	1474.8	1470.7	1473.1	1474.2
25°	1442.7	1441.4	1436.7	1438.0	1435.6
27.5°	1405.6	1405.6	1397.2	1397.2	1393.0
30°	1368.1	1365.0	1356.2	1350.7	1346.6
32.5°	1324.9	1320.8	1309.5	1300.0	1296.9
35°	1276.7	1272.4	1257.4	1246.1	1241.4
37.5°	1230.1	1220.5	1200.8	1189.5	1184.1
40°	1175.6	1163.7	1143.5	1127.9	1125.5
42.5°	1117.3	1107.7	1081.5	1070.0	1067.1
45°	1055.2	1043.7	1023.9	1012.0	1003.1
47.5°	994.2	985.8	963.2	948.9	945.8
50°	930.2	923.1	899.8	884.4	879.0
52.5°	864.0	859.3	839.5	819.8	813.3
55°	795.5	793.1	768.6	745.8	738.0
57.5°	728.0	724.9	694.4	668.1	660.9
60°	657.5	648.6	618.6	594.1	586.3
62.5°	590.6	571.5	539.2	520.1	511.2
65°	514.0	495.6	467.0	446.6	443.7
67.5°	439.0	416.8	394.7	382.1	372.6
70°	360.6	345.7	328.9	318.3	316.6
72.5°	287.7	277.1	268.6	262.1	256.7
75°	217.9	216.1	213.1	213.1	207.2
77.5°	160.1	164.3	166.6	166.0	167.3
80°	111.1	119.3	124.1	124.8	124.1
82.5°	70.5	80.1	87.9	89.0	90.3
85°	41.2	48.4	53.2	54.2	53.2
87.5°	18.4	23.2	24.5	25.6	24.5
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)