

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: P1046974

Luminaire Tested: 22PTR-50-PW1-L830-UNV-STD-W

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1046974
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737743)
Test Lab: INNOVATION CENTER
Issue Date: 7/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22PTR-50-PW1-L830-UNV-STD-W
Description: 5000 LUMEN 2X2 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND WAVES LENS

Light Source:
Ballast/Driver: -

Summary

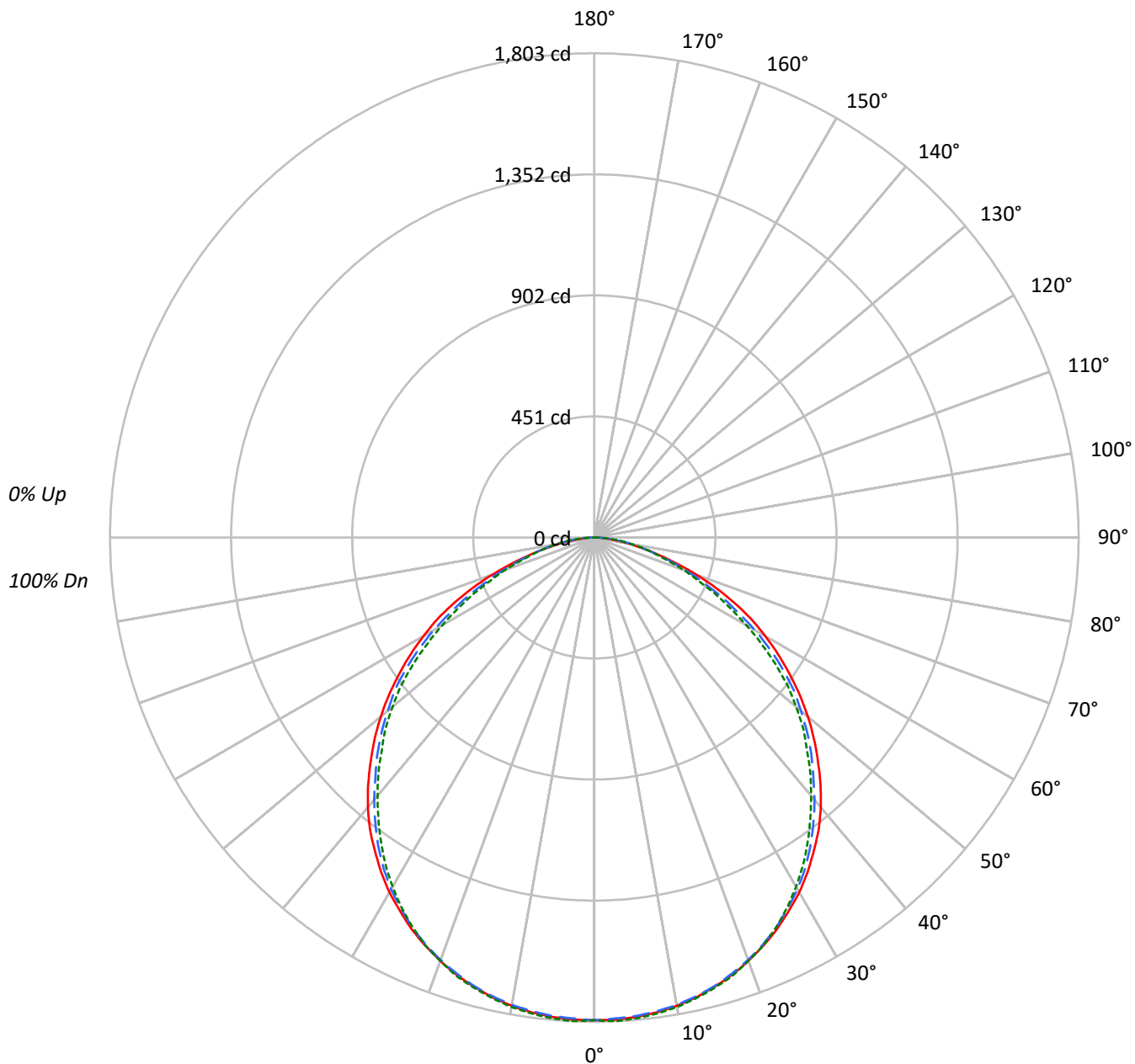
Lumens per Lamp: N/A
Luminaire Lumens: 4770.5 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: (L: 2 ' x W: 0 ' x H: 2 '
CIE Type: Direct

Input Watts (W): 39
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°	Luminous shape not found, reference photometric report, or contact the photometric lab for calculations.		
5°			
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: -
Vertical Angle: -
Luminance: -

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.5	3.6
10°-20°	489.0	10.2
20°-30°	739.0	15.5
30°-40°	877.5	18.4
40°-50°	884.0	18.5
50°-60°	764.1	16.0
60°-70°	522.3	10.9
70°-80°	257.5	5.4
80°-90°	66.6	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°	1398.4	29.3
0°-40°	2275.9	47.7
0°-60°	3924.1	82.3
0°-90°	4770.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4770.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1798	1798	1798	1798	1798	
5°	1792	1793	1788	1796	1798	170
15°	1732	1734	1729	1735	1736	489
25°	1609	1608	1602	1604	1601	741
35°	1424	1419	1403	1390	1385	891
45°	1177	1164	1142	1129	1119	908
55°	887	885	857	832	823	793
65°	573	553	521	498	495	566
75°	243	241	238	238	231	265
85°	46	54	59	60	59	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1797.6	1797.6	1797.6	1797.6	1797.6
2.5°	1797.1	1797.6	1793.0	1801.0	1802.9
5°	1792.3	1793.0	1788.4	1795.7	1797.6
7.5°	1783.8	1785.0	1779.7	1786.9	1788.4
10°	1771.0	1771.7	1767.1	1774.4	1775.8
12.5°	1753.8	1754.3	1750.4	1756.9	1756.9
15°	1731.8	1733.7	1729.1	1735.1	1735.6
17.5°	1707.1	1707.8	1703.2	1709.7	1711.2
20°	1677.8	1677.8	1673.9	1679.2	1677.8
22.5°	1645.1	1645.1	1640.5	1643.2	1644.4
25°	1609.3	1607.8	1602.5	1604.0	1601.3
27.5°	1567.9	1567.9	1558.5	1558.5	1553.9
30°	1526.0	1522.6	1512.7	1506.7	1502.1
32.5°	1477.9	1473.3	1460.7	1450.0	1446.6
35°	1424.1	1419.3	1402.6	1390.0	1384.7
37.5°	1372.1	1361.4	1339.4	1326.8	1320.8
40°	1311.3	1298.0	1275.5	1258.1	1255.4
42.5°	1246.2	1235.6	1206.3	1193.5	1190.3
45°	1177.0	1164.2	1142.2	1128.8	1118.9
47.5°	1109.0	1099.6	1074.4	1058.4	1055.0
50°	1037.6	1029.6	1003.7	986.5	980.5
52.5°	963.8	958.5	936.4	914.4	907.1
55°	887.3	884.6	857.3	831.9	823.2
57.5°	812.0	808.6	774.5	745.2	737.2
60°	733.4	723.4	690.0	662.7	654.0
62.5°	658.8	637.5	601.5	580.2	570.2
65°	573.4	552.8	520.9	498.1	495.0
67.5°	489.6	464.9	440.3	426.2	415.6
70°	402.3	385.6	366.9	355.1	353.1
72.5°	320.9	309.1	299.6	292.4	286.3
75°	243.0	241.1	237.7	237.7	231.1
77.5°	178.6	183.2	185.9	185.2	186.6
80°	123.9	133.1	138.4	139.2	138.4
82.5°	78.7	89.3	98.0	99.2	100.7
85°	46.0	54.0	59.3	60.5	59.3
87.5°	20.6	25.9	27.3	28.6	27.3
90°	0.0	0.0	0.0	0.0	0.0







— 0°-180° - - 45°-225° - - - 90°-270°





(END OF REPORT)