

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: P1046722

Luminaire Tested: 22PTR-50-PB1-L830-UNV-STD-W

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1046722
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737703)
Test Lab: INNOVATION CENTER
Issue Date: 7/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22PTR-50-PB1-L830-UNV-STD-W
Description: 5000 LUMEN 2X2 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND BEVEL LENS

Light Source:
Ballast/Driver: -

Summary

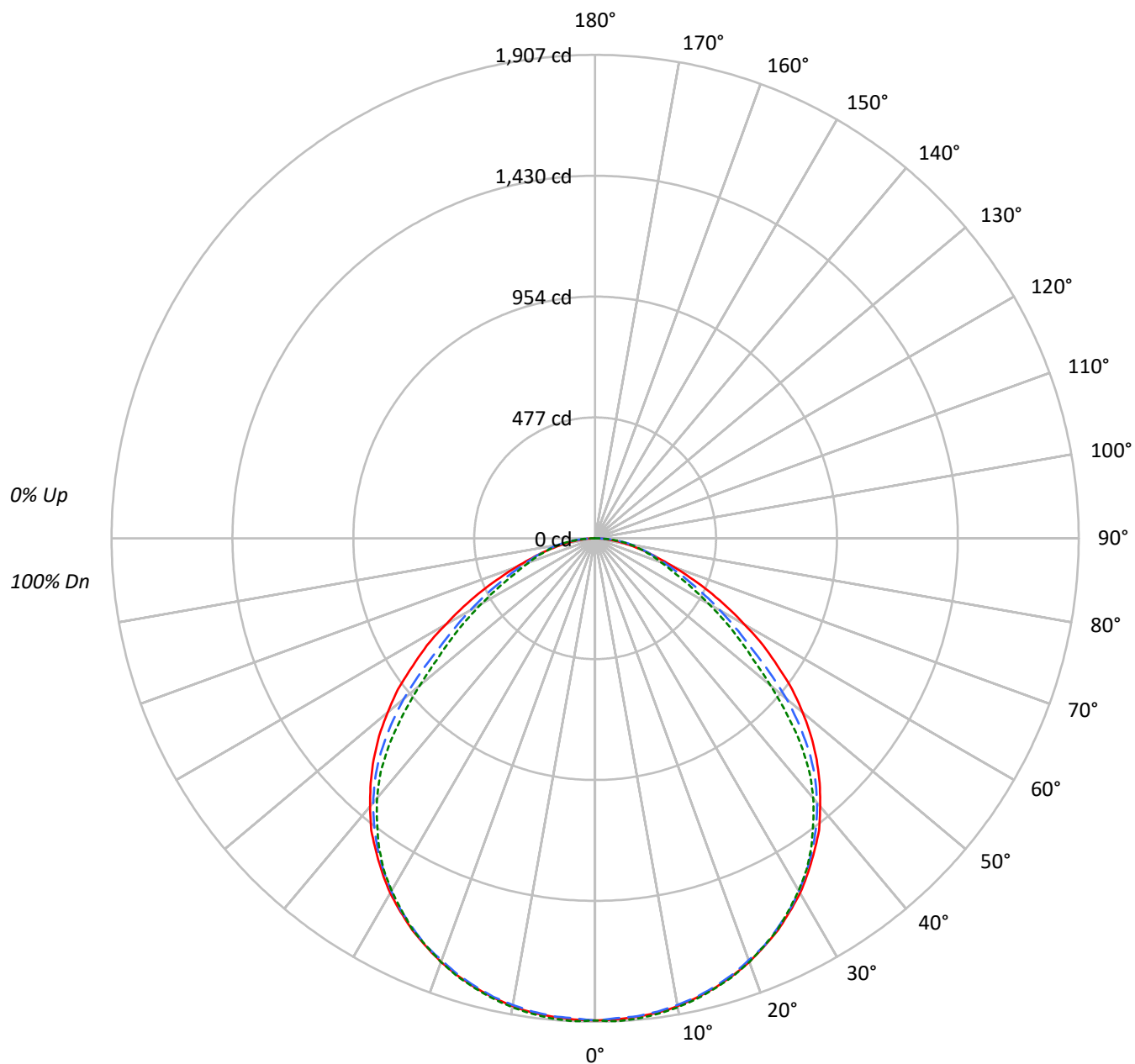
Lumens per Lamp: N/A
Luminaire Lumens: 4743.0 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: (L: 2 ' x W: 0 ' x H: 2 '
CIE Type: Direct

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

TEST NUMBER: P1046722

CATALOG NUMBER: 22PTR-50-PB1-L830-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1046722

CATALOG NUMBER: 22PTR-50-PB1-L830-UNV-STD-W

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

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: -

TEST NUMBER: P1046722

CATALOG NUMBER: 22PTR-50-PB1-L830-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.4	3.8
10°-20°	517.5	10.9
20°-30°	783.9	16.5
30°-40°	934.1	19.7
40°-50°	913.4	19.3
50°-60°	690.9	14.6
60°-70°	424.5	8.9
70°-80°	226.1	4.8
80°-90°	72.2	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°	1481.8	31.2
0°-40°	2415.9	50.9
0°-60°	4020.2	84.8
0°-90°	4743.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4743.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1902	1902	1902	1902	1902	
5°	1895	1897	1893	1900	1902	180
15°	1834	1836	1830	1836	1836	518
25°	1706	1703	1698	1701	1703	785
35°	1507	1504	1495	1488	1486	942
45°	1235	1228	1195	1156	1146	950
55°	877	833	746	704	692	786
65°	494	454	417	384	372	491
75°	210	213	215	208	204	226
85°	47	61	75	70	66	56
90°	0	0	0	0	0	

TEST NUMBER: P1046722

CATALOG NUMBER: 22PTR-50-PB1-L830-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1902.1	1902.1	1902.1	1902.1	1902.1
2.5°	1899.9	1902.1	1895.0	1904.6	1906.8
5°	1895.0	1897.4	1892.8	1899.9	1902.1
7.5°	1888.1	1888.1	1883.4	1890.3	1892.8
10°	1874.1	1874.1	1869.4	1876.3	1878.8
12.5°	1855.4	1855.4	1853.0	1857.7	1860.1
15°	1834.3	1836.5	1829.6	1836.5	1836.5
17.5°	1808.5	1806.3	1803.9	1808.5	1811.0
20°	1778.1	1778.1	1771.2	1775.9	1778.1
22.5°	1742.9	1742.9	1740.7	1742.9	1740.7
25°	1705.6	1703.2	1698.5	1700.9	1703.2
27.5°	1661.2	1661.2	1656.5	1656.5	1654.0
30°	1616.7	1614.2	1607.4	1602.7	1604.9
32.5°	1562.9	1560.4	1553.6	1548.9	1551.1
35°	1506.7	1504.4	1495.1	1488.0	1485.8
37.5°	1450.7	1443.5	1431.7	1422.4	1413.1
40°	1380.4	1373.3	1361.7	1340.6	1338.2
42.5°	1310.2	1303.3	1284.4	1258.8	1251.7
45°	1235.2	1228.4	1195.4	1155.7	1146.3
47.5°	1155.7	1144.1	1092.5	1043.4	1024.7
50°	1067.0	1045.9	985.0	921.8	900.7
52.5°	980.3	942.9	863.4	807.1	786.2
55°	877.4	832.9	746.4	704.2	692.4
57.5°	786.2	725.3	655.1	613.1	603.7
60°	680.9	624.6	568.6	531.0	517.0
62.5°	584.8	535.7	489.0	456.1	439.9
65°	493.7	453.9	416.6	383.7	372.1
67.5°	404.8	383.7	353.2	327.7	320.5
70°	329.9	318.1	297.2	285.4	276.1
72.5°	262.1	266.7	252.7	248.1	241.0
75°	210.5	213.0	215.2	208.3	203.6
77.5°	159.2	170.7	180.0	175.4	170.7
80°	119.4	130.9	147.4	140.5	140.5
82.5°	81.8	96.0	110.0	105.4	102.9
85°	46.9	60.9	74.9	70.2	65.6
87.5°	18.7	30.5	32.7	32.7	30.5
90°	0.0	0.0	0.0	0.0	0.0







— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)