

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: P1046773

Luminaire Tested: 22PTR-45-PC3-L840-UNV-STD-W

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1046773
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737711)
Test Lab: INNOVATION CENTER
Issue Date: 7/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22PTR-45-PC3-L840-UNV-STD-W
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND PARAMID LENS

Light Source:
Ballast/Driver: -

Summary

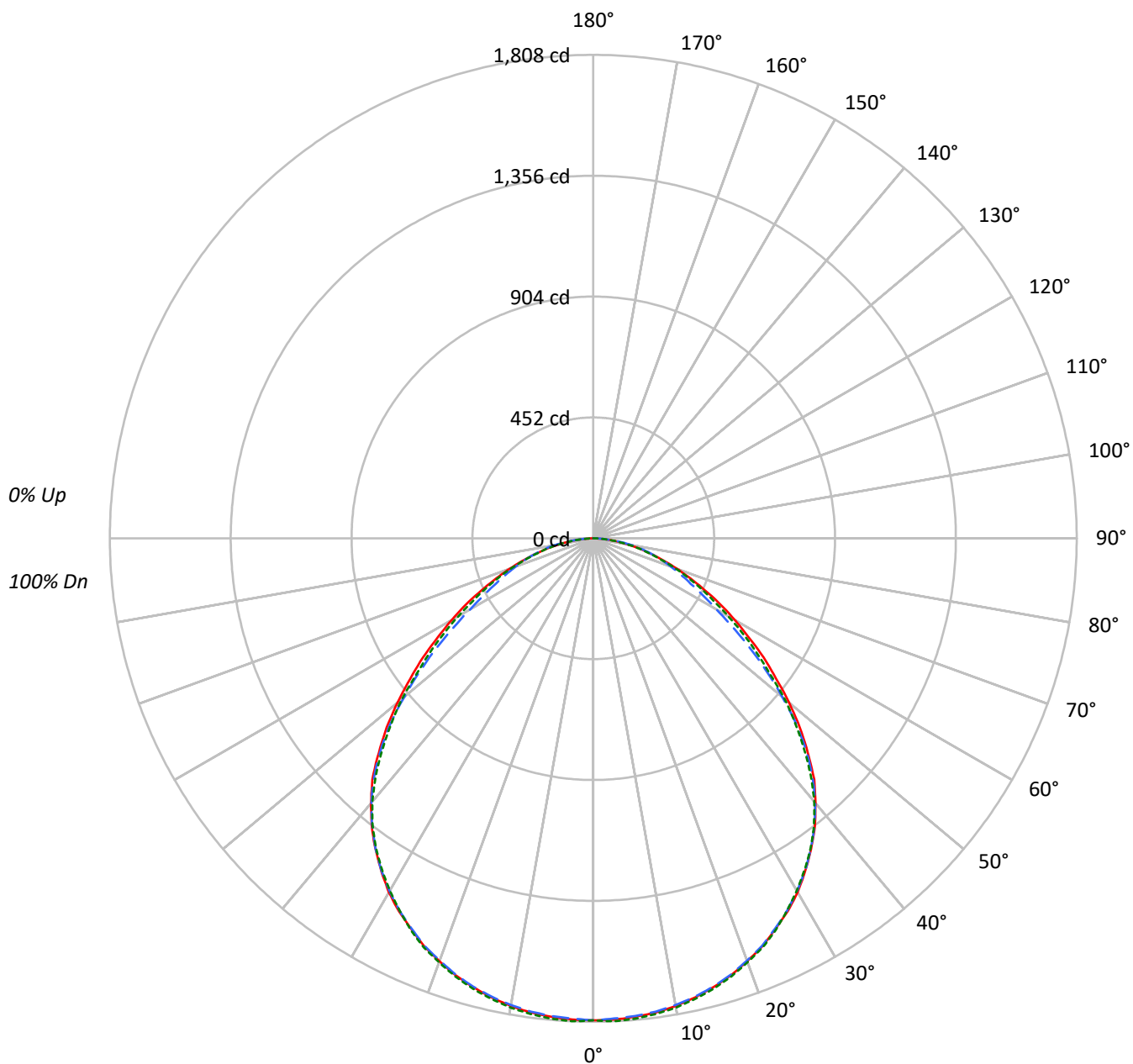
Lumens per Lamp: N/A
Luminaire Lumens: 4545.4 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: (L: 2 ' x W: 0 ' x H: 2 '
CIE Type: Direct

Input Watts (W): 35
Input Voltage (V): 120
Input Current (A_{in}): 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: P1046773

CATALOG NUMBER: 22PTR-45-PC3-L840-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1046773

CATALOG NUMBER: 22PTR-45-PC3-L840-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	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72		
3	92	82	74	68	90	80	73	68	77	71	66	75	70	65	72	68	64	62		
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54		
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	47		
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41		
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37		
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33		
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30		
10	55	42	34	29	54	41	34	29	40	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: P1046773

CATALOG NUMBER: 22PTR-45-PC3-L840-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.0	3.8
10°-20°	490.8	10.8
20°-30°	743.1	16.3
30°-40°	886.0	19.5
40°-50°	865.7	19.0
50°-60°	662.0	14.6
60°-70°	425.0	9.4
70°-80°	236.4	5.2
80°-90°	65.3	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°	1405.0	30.9
0°-40°	2291.0	50.4
0°-60°	3818.7	84.0
0°-90°	4545.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4545.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1803	1803	1803	1803	1803	
5°	1797	1798	1793	1802	1804	171
15°	1738	1739	1736	1742	1744	490
25°	1612	1614	1610	1615	1616	744
35°	1420	1421	1419	1418	1416	887
45°	1135	1138	1126	1124	1115	873
55°	778	751	715	724	747	695
65°	462	426	402	415	443	461
75°	222	224	226	223	217	237
85°	48	57	57	56	48	59
90°	0	0	0	0	0	

TEST NUMBER: P1046773

CATALOG NUMBER: 22PTR-45-PC3-L840-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1802.9	1802.9	1802.9	1802.9	1802.9
2.5°	1801.8	1802.5	1797.8	1805.5	1808.1
5°	1796.6	1797.8	1793.3	1801.8	1803.6
7.5°	1788.9	1790.0	1785.6	1794.0	1794.7
10°	1776.0	1776.7	1772.7	1781.1	1782.3
12.5°	1758.6	1760.5	1756.1	1763.8	1764.3
15°	1737.8	1739.2	1735.9	1741.8	1743.7
17.5°	1713.4	1714.1	1710.9	1717.2	1717.9
20°	1683.0	1683.0	1680.4	1687.7	1687.7
22.5°	1652.0	1650.2	1649.5	1652.0	1656.0
25°	1612.2	1614.1	1609.6	1614.8	1616.0
27.5°	1573.6	1573.6	1569.6	1572.1	1568.9
30°	1529.0	1526.5	1523.9	1524.3	1521.3
32.5°	1475.4	1475.4	1474.2	1474.2	1470.2
35°	1420.1	1421.3	1418.7	1418.0	1416.1
37.5°	1360.6	1362.7	1358.0	1356.8	1355.4
40°	1292.9	1292.9	1291.0	1288.4	1285.1
42.5°	1222.6	1222.6	1214.4	1207.8	1203.4
45°	1134.9	1137.5	1126.5	1123.9	1115.0
47.5°	1047.8	1045.9	1031.2	1029.3	1024.1
50°	955.0	944.0	922.9	928.5	933.2
52.5°	862.2	848.6	817.7	824.0	831.8
55°	777.6	750.7	714.6	723.5	746.7
57.5°	689.3	653.2	617.1	634.0	662.8
60°	611.3	570.8	531.4	549.4	582.9
62.5°	536.5	493.4	461.8	479.1	507.5
65°	461.8	426.2	401.8	415.2	443.1
67.5°	393.4	369.5	352.9	359.2	381.7
70°	331.5	316.5	307.6	309.5	322.4
72.5°	272.7	269.0	265.7	265.7	266.9
75°	221.9	223.8	225.6	222.6	217.4
77.5°	174.8	181.1	185.8	179.2	172.9
80°	128.4	138.7	144.6	137.3	127.7
82.5°	87.6	99.3	101.2	96.8	85.8
85°	48.3	56.7	57.4	55.5	48.3
87.5°	18.0	21.3	23.2	21.3	18.7
90°	0.0	0.0	0.0	0.0	0.0







— 0°-180° - - 45°-225° - - - 90°-270°





(END OF REPORT)