

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: P1046736

Luminaire Tested: 22PTR-45-PB1-L850-UNV-STD-W

Issue Date: 7/10/2025

Test Information

Test Method: LM-79-2019
Report Number: P1046736
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-45-PB1-L850-UNV-STD-W
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND BEVEL LENS

Light Source:
Ballast/Driver: -

Summary

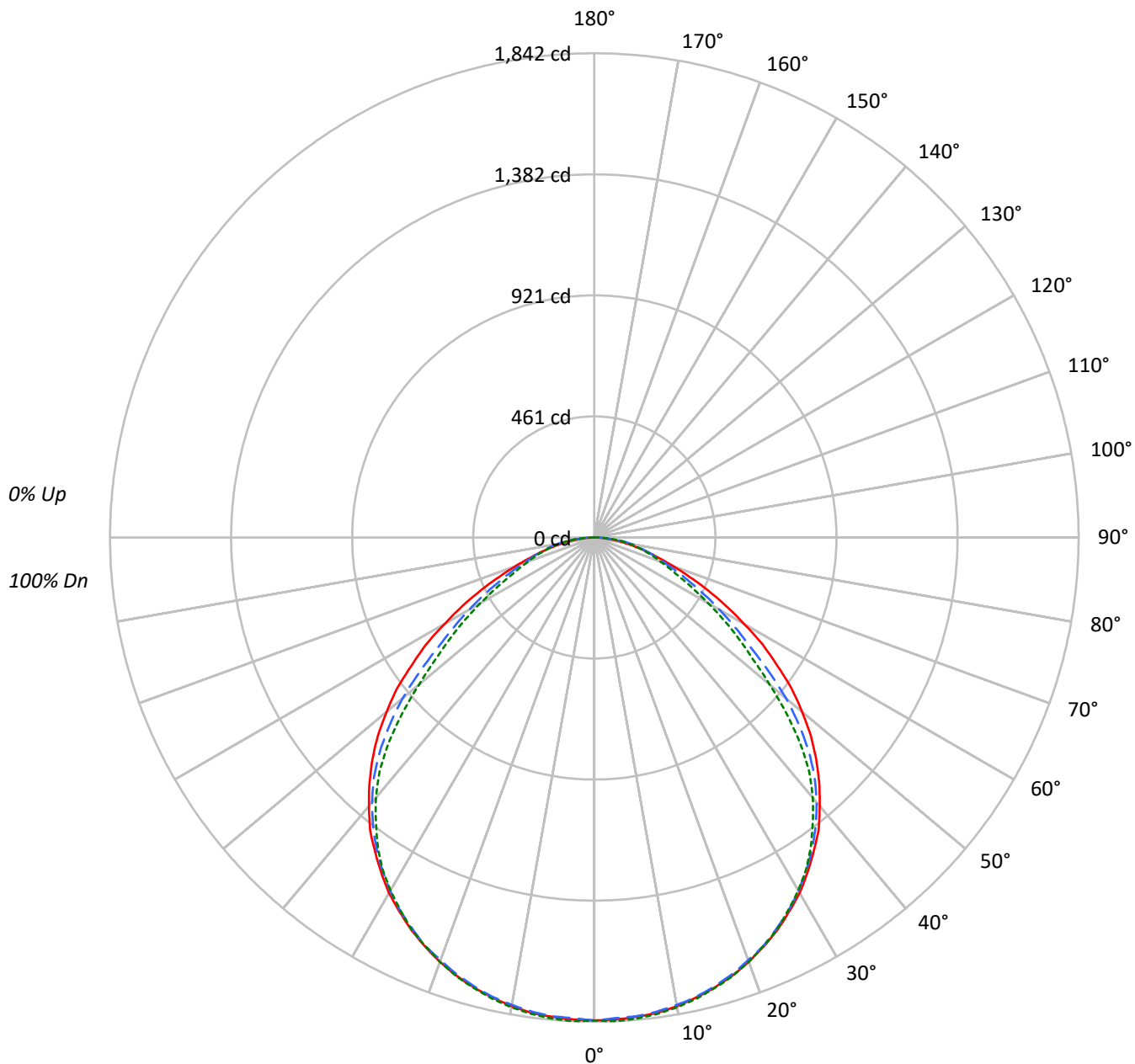
Lumens per Lamp: N/A
Luminaire Lumens: 4582.0 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: (L: 2 ' x W: 0 ' x H: 2 '
CIE Type: Direct

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

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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	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: -

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.2	3.8
10°-20°	499.9	10.9
20°-30°	757.3	16.5
30°-40°	902.4	19.7
40°-50°	882.4	19.3
50°-60°	667.5	14.6
60°-70°	410.1	8.9
70°-80°	218.5	4.8
80°-90°	69.7	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°	1431.5	31.2
0°-40°	2333.9	50.9
0°-60°	3883.7	84.8
0°-90°	4582.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4582.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1838	1838	1838	1838	1838	
5°	1831	1833	1828	1835	1838	174
15°	1772	1774	1768	1774	1774	500
25°	1648	1645	1641	1643	1645	759
35°	1456	1453	1444	1438	1435	910
45°	1193	1187	1155	1116	1107	918
55°	848	805	721	680	669	759
65°	477	438	402	371	360	475
75°	203	206	208	201	197	218
85°	45	59	72	68	63	54
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1837.5	1837.5	1837.5	1837.5	1837.5
2.5°	1835.4	1837.5	1830.7	1839.9	1842.0
5°	1830.7	1833.0	1828.5	1835.4	1837.5
7.5°	1824.0	1824.0	1819.5	1826.2	1828.5
10°	1810.5	1810.5	1806.0	1812.6	1815.0
12.5°	1792.5	1792.5	1790.1	1794.6	1797.0
15°	1772.1	1774.2	1767.5	1774.2	1774.2
17.5°	1747.1	1745.0	1742.6	1747.1	1749.5
20°	1717.7	1717.7	1711.1	1715.6	1717.7
22.5°	1683.8	1683.8	1681.6	1683.8	1681.6
25°	1647.7	1645.3	1640.8	1643.2	1645.3
27.5°	1604.8	1604.8	1600.3	1600.3	1597.9
30°	1561.8	1559.4	1552.8	1548.3	1550.4
32.5°	1509.8	1507.5	1500.8	1496.3	1498.5
35°	1455.5	1453.4	1444.4	1437.5	1435.3
37.5°	1401.4	1394.5	1383.1	1374.1	1365.1
40°	1333.5	1326.7	1315.5	1295.1	1292.7
42.5°	1265.7	1259.0	1240.8	1216.1	1209.2
45°	1193.3	1186.7	1154.9	1116.4	1107.4
47.5°	1116.4	1105.3	1055.4	1008.0	990.0
50°	1030.8	1010.4	951.5	890.5	870.1
52.5°	947.0	910.9	834.1	779.7	759.6
55°	847.6	804.6	721.1	680.3	668.9
57.5°	759.6	700.7	632.8	592.3	583.2
60°	657.8	603.4	549.3	513.0	499.5
62.5°	565.0	517.5	472.4	440.6	425.0
65°	476.9	438.5	402.4	370.6	359.5
67.5°	391.0	370.6	341.2	316.5	309.7
70°	318.7	307.3	287.1	275.7	266.7
72.5°	253.2	257.7	244.2	239.7	232.8
75°	203.4	205.7	207.9	201.2	196.7
77.5°	153.8	164.9	173.9	169.4	164.9
80°	115.3	126.5	142.4	135.7	135.7
82.5°	79.0	92.8	106.3	101.8	99.4
85°	45.3	58.8	72.4	67.9	63.4
87.5°	18.0	29.4	31.6	31.6	29.4
90°	0.0	0.0	0.0	0.0	0.0





— 0°-180° - - 45°-225° - - - 90°-270°





(END OF REPORT)