

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: P1050887

Luminaire Tested: 24PTR-45-PP3-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050887
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737727)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-45-PP3-L850-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND PRISM LENS

Light Source:
Ballast/Driver: -

Summary

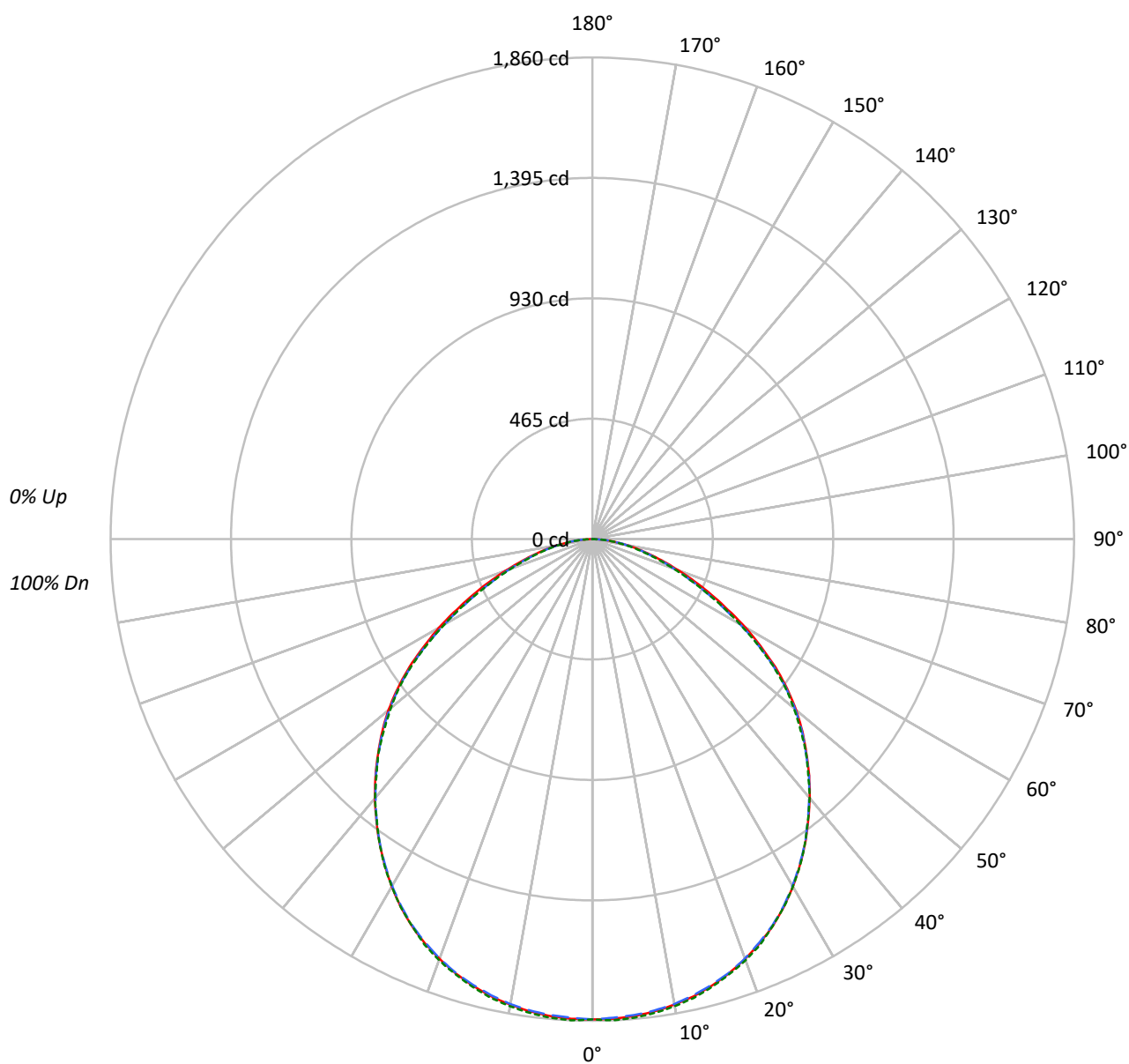
Lumens per Lamp: N/A
Luminaire Lumens: 4791.8 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37
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	96	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	61		
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53		
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	52	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	42	40		
7	66	53	45	39	65	52	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32		
9	58	45	37	31	57	44	36	31	43	36	31	42	35	31	41	35	31	29		
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2495	2495	2495
5°	2498	2492	2506
10°	2494	2490	2502
15°	2486	2481	2492
20°	2469	2467	2478
25°	2447	2443	2446
30°	2406	2401	2406
35°	2354	2351	2353
40°	2294	2286	2292
45°	2225	2218	2221
50°	2150	2140	2125
55°	2024	2001	1994
60°	1837	1775	1778
65°	1613	1533	1530
70°	1395	1332	1316
75°	1207	1162	1137
80°	1069	1054	1007
85°	883	914	861

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 2233 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.9	3.7
10°-20°	503.9	10.5
20°-30°	758.6	15.8
30°-40°	895.3	18.7
40°-50°	900.4	18.8
50°-60°	760.2	15.9
60°-70°	488.2	10.2
70°-80°	242.8	5.1
80°-90°	66.5	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°	1438.3	30.0
0°-40°	2333.6	48.7
0°-60°	3994.3	83.4
0°-90°	4791.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4791.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1855	1855	1855	1855	1855	
5°	1849	1850	1845	1854	1855	176
15°	1785	1785	1781	1789	1789	503
25°	1649	1649	1646	1649	1648	759
35°	1433	1434	1431	1432	1432	896
45°	1169	1173	1166	1167	1167	902
55°	863	862	853	850	850	768
65°	507	500	481	476	481	505
75°	232	231	224	221	219	251
85°	57	59	59	56	56	67
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1854.6	1854.6	1854.6	1854.6	1854.6
2.5°	1853.9	1854.6	1849.7	1858.5	1860.0
5°	1849.2	1849.7	1845.0	1853.9	1855.1
7.5°	1839.7	1840.4	1836.2	1844.3	1845.8
10°	1825.5	1827.7	1822.8	1830.4	1831.6
12.5°	1808.1	1808.8	1804.0	1812.8	1814.2
15°	1784.6	1785.1	1781.2	1789.3	1789.3
17.5°	1757.5	1758.2	1755.5	1762.4	1761.6
20°	1724.7	1726.7	1723.2	1727.9	1730.6
22.5°	1689.0	1689.7	1685.6	1691.7	1694.4
25°	1648.6	1649.1	1645.9	1649.1	1647.9
27.5°	1601.4	1602.6	1598.0	1601.4	1602.2
30°	1548.8	1552.3	1545.7	1548.3	1548.8
32.5°	1492.3	1494.3	1489.6	1490.4	1493.8
35°	1433.1	1433.9	1431.2	1432.4	1432.4
37.5°	1369.3	1372.0	1367.8	1369.8	1367.1
40°	1305.9	1303.3	1301.8	1303.3	1305.2
42.5°	1239.2	1239.9	1237.9	1236.5	1233.3
45°	1169.2	1173.4	1165.8	1167.3	1167.3
47.5°	1100.7	1101.2	1097.3	1093.1	1090.4
50°	1027.3	1027.3	1022.4	1019.3	1015.1
52.5°	947.1	945.9	940.5	937.1	939.0
55°	863.0	862.2	852.9	849.5	850.2
57.5°	770.7	772.2	758.0	754.6	754.6
60°	682.7	675.8	659.7	655.0	660.9
62.5°	590.2	582.2	564.8	564.8	569.4
65°	506.8	499.5	481.4	476.5	480.6
67.5°	428.8	421.9	405.3	402.6	403.8
70°	354.7	348.8	338.5	332.4	334.6
72.5°	290.8	285.5	278.6	274.0	271.3
75°	232.1	230.9	223.6	221.4	218.7
77.5°	183.7	183.2	177.1	174.4	171.7
80°	138.0	137.2	136.0	131.8	129.9
82.5°	98.3	98.3	97.6	94.2	92.2
85°	57.2	59.2	59.2	55.8	55.8
87.5°	23.0	24.2	23.0	23.0	22.3
90°	0.0	0.0	0.0	0.0	0.0





— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)