

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: P1051041

Luminaire Tested: 24PTR-45-PW1-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1051041
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737743)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-45-PW1-L850-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND WAVES LENS

Light Source:
Ballast/Driver: -

Summary

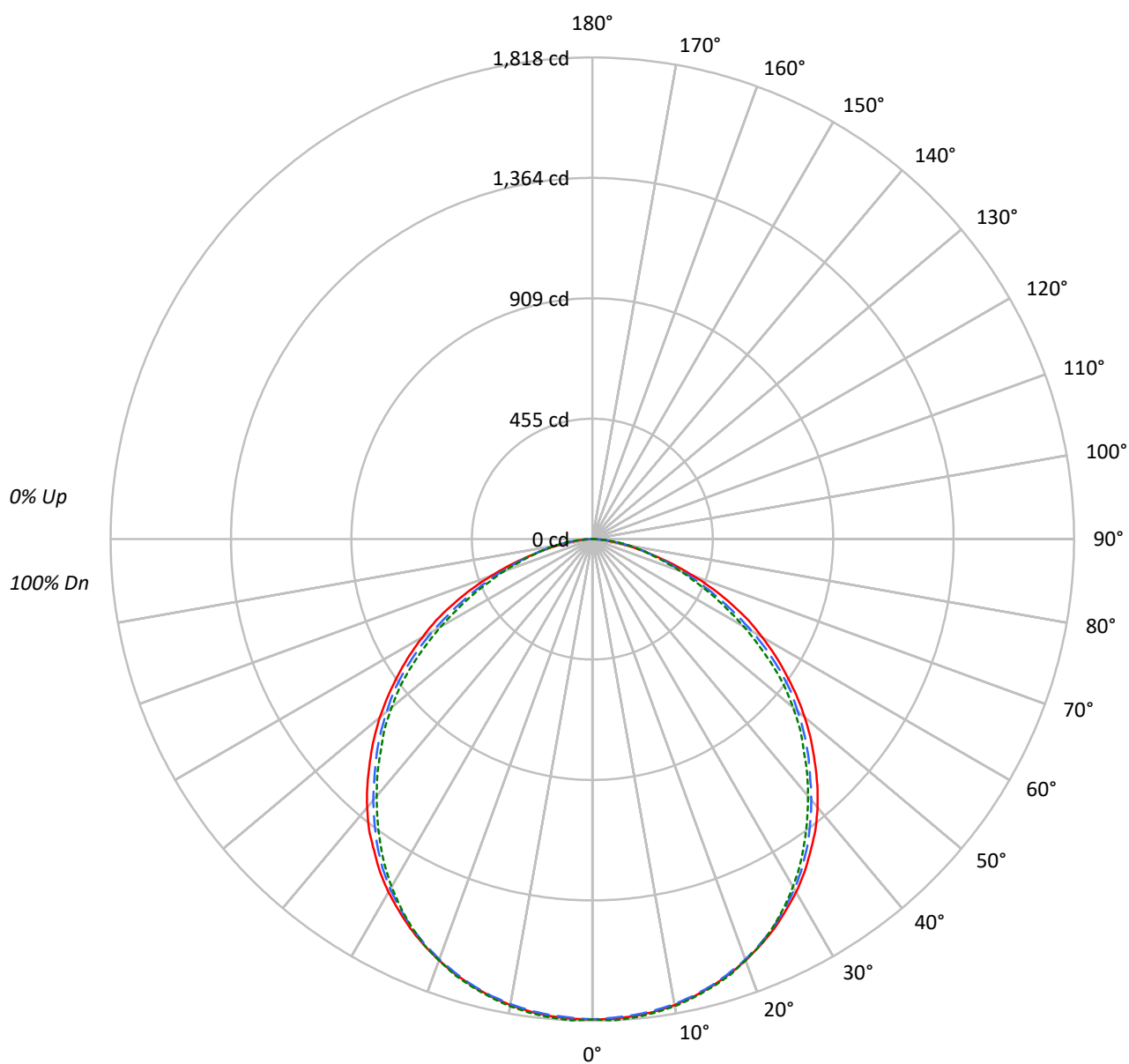
Lumens per Lamp: N/A
Luminaire Lumens: 4810.2 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	102	102	100
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	87	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	74	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	63	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	54	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	42	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	37	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	33	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	30	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	27	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2439	2439	2439
5°	2441	2436	2448
10°	2440	2434	2446
15°	2432	2429	2438
20°	2422	2417	2422
25°	2409	2399	2397
30°	2391	2370	2353
35°	2359	2323	2293
40°	2323	2259	2223
45°	2258	2191	2147
50°	2190	2119	2070
55°	2099	2028	1947
60°	1990	1872	1774
65°	1841	1672	1589
70°	1596	1456	1401
75°	1274	1246	1212
80°	969	1082	1082
85°	716	923	923

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2258 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.9	3.6
10°-20°	493.0	10.2
20°-30°	745.1	15.5
30°-40°	884.8	18.4
40°-50°	891.4	18.5
50°-60°	770.5	16.0
60°-70°	526.6	10.9
70°-80°	259.7	5.4
80°-90°	67.2	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°	1410.1	29.3
0°-40°	2294.9	47.7
0°-60°	3956.8	82.3
0°-90°	4810.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4810.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1813	1813	1813	1813	1813	
5°	1807	1808	1803	1811	1813	172
15°	1746	1748	1744	1750	1750	493
25°	1623	1621	1616	1617	1615	747
35°	1436	1431	1414	1402	1396	899
45°	1187	1174	1152	1138	1128	916
55°	895	892	864	839	830	800
65°	578	557	525	502	499	571
75°	245	243	240	240	233	267
85°	46	54	60	61	60	57
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1812.6	1812.6	1812.6	1812.6	1812.6
2.5°	1812.1	1812.6	1807.9	1816.0	1817.9
5°	1807.2	1807.9	1803.3	1810.6	1812.6
7.5°	1798.7	1799.9	1794.5	1801.8	1803.3
10°	1785.7	1786.5	1781.8	1789.1	1790.6
12.5°	1768.4	1768.9	1765.0	1771.6	1771.6
15°	1746.2	1748.1	1743.5	1749.6	1750.1
17.5°	1721.3	1722.0	1717.4	1724.0	1725.4
20°	1691.8	1691.8	1687.9	1693.2	1691.8
22.5°	1658.8	1658.8	1654.2	1656.9	1658.1
25°	1622.7	1621.2	1615.9	1617.3	1614.6
27.5°	1581.0	1581.0	1571.5	1571.5	1566.8
30°	1538.7	1535.3	1525.3	1519.2	1514.6
32.5°	1490.2	1485.5	1472.9	1462.1	1458.7
35°	1436.0	1431.1	1414.3	1401.6	1396.2
37.5°	1383.5	1372.8	1350.6	1337.9	1331.8
40°	1322.3	1308.9	1286.2	1268.6	1265.9
42.5°	1256.6	1245.9	1216.4	1203.4	1200.2
45°	1186.8	1173.9	1151.7	1138.3	1128.3
47.5°	1118.2	1108.7	1083.3	1067.2	1063.8
50°	1046.3	1038.2	1012.1	994.8	988.7
52.5°	971.8	966.4	944.2	922.0	914.7
55°	894.7	892.0	864.4	838.8	830.0
57.5°	818.8	815.4	781.0	751.4	743.4
60°	739.5	729.5	695.8	668.2	659.4
62.5°	664.3	642.8	606.5	585.0	575.0
65°	578.2	557.4	525.2	502.3	499.1
67.5°	493.7	468.8	443.9	429.8	419.0
70°	405.6	388.8	370.0	358.0	356.1
72.5°	323.6	311.7	302.1	294.8	288.7
75°	245.0	243.1	239.7	239.7	233.1
77.5°	180.1	184.7	187.4	186.7	188.2
80°	125.0	134.2	139.6	140.3	139.6
82.5°	79.3	90.1	98.8	100.1	101.5
85°	46.4	54.4	59.8	61.0	59.8
87.5°	20.7	26.1	27.6	28.8	27.6
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)