

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: P1051042

Luminaire Tested: 24PTR-50-PW1-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1051042
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-50-PW1-L850-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND WAVES LENS

Light Source:
Ballast/Driver: -

Summary

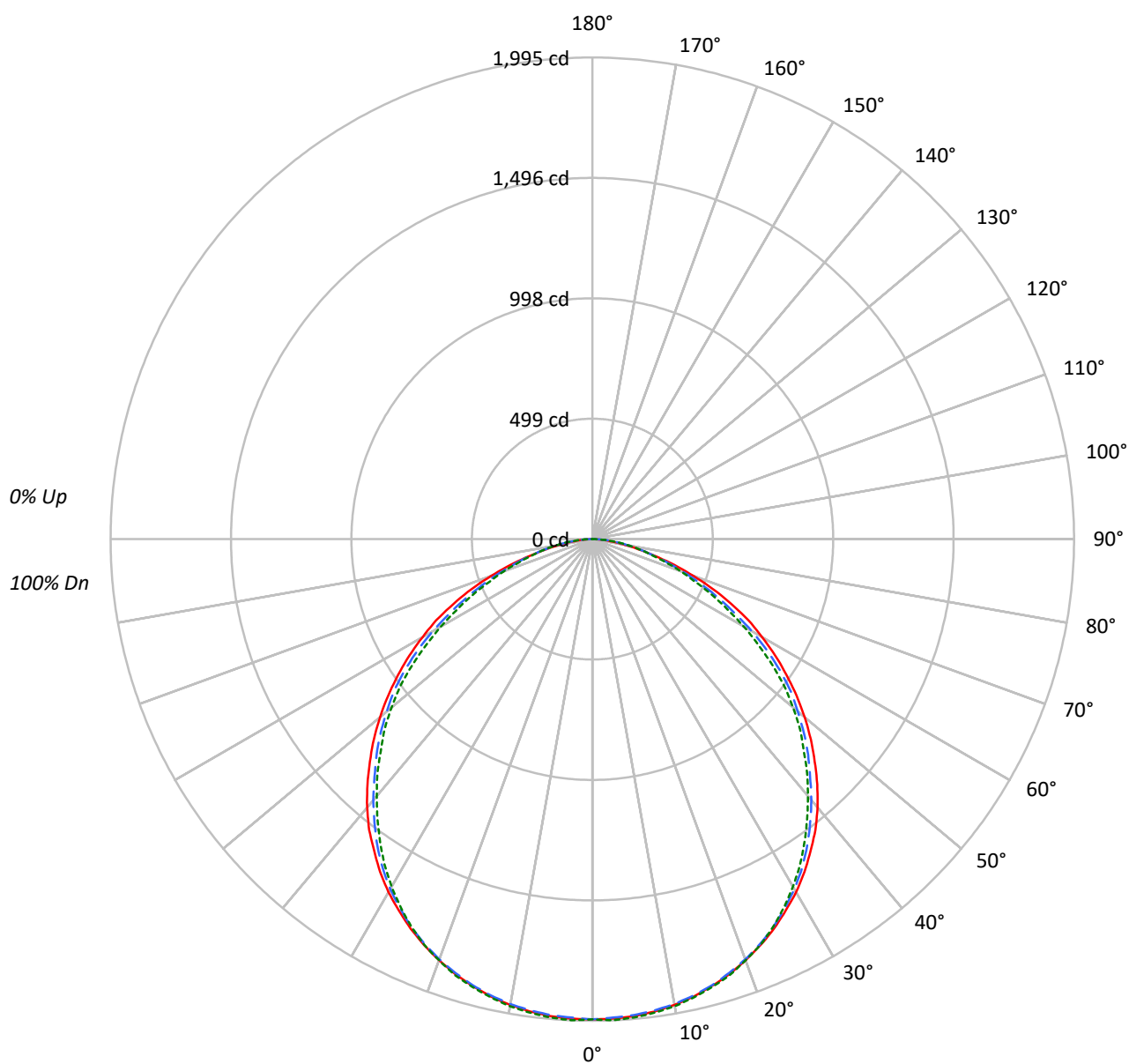
Lumens per Lamp: N/A
Luminaire Lumens: 5277.8 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41
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°	2676	2676	2676
5°	2678	2672	2686
10°	2677	2671	2684
15°	2669	2665	2675
20°	2658	2652	2658
25°	2643	2632	2630
30°	2623	2600	2582
35°	2588	2549	2516
40°	2548	2479	2439
45°	2478	2404	2355
50°	2403	2325	2271
55°	2303	2225	2136
60°	2183	2054	1947
65°	2020	1834	1743
70°	1751	1597	1537
75°	1397	1367	1329
80°	1062	1187	1187
85°	786	1013	1013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2478 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.6	3.6
10°-20°	541.0	10.2
20°-30°	817.6	15.5
30°-40°	970.8	18.4
40°-50°	978.0	18.5
50°-60°	845.4	16.0
60°-70°	577.8	10.9
70°-80°	284.9	5.4
80°-90°	73.7	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°	1547.1	29.3
0°-40°	2517.9	47.7
0°-60°	4341.4	82.3
0°-90°	5277.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5277.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1989	1989	1989	1989	1989	
5°	1983	1984	1979	1987	1989	189
15°	1916	1918	1913	1920	1920	541
25°	1780	1779	1773	1774	1772	820
35°	1576	1570	1552	1538	1532	986
45°	1302	1288	1264	1249	1238	1005
55°	982	979	948	920	911	878
65°	634	612	576	551	548	626
75°	269	267	263	263	256	293
85°	51	60	66	67	66	62
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1988.8	1988.8	1988.8	1988.8	1988.8
2.5°	1988.2	1988.8	1983.7	1992.5	1994.6
5°	1982.9	1983.7	1978.6	1986.6	1988.8
7.5°	1973.5	1974.8	1968.9	1977.0	1978.6
10°	1959.3	1960.1	1955.0	1963.0	1964.7
12.5°	1940.3	1940.8	1936.5	1943.8	1943.8
15°	1915.9	1918.1	1913.0	1919.7	1920.2
17.5°	1888.6	1889.4	1884.3	1891.6	1893.2
20°	1856.2	1856.2	1851.9	1857.8	1856.2
22.5°	1820.1	1820.1	1815.0	1817.9	1819.3
25°	1780.4	1778.8	1772.9	1774.5	1771.6
27.5°	1734.6	1734.6	1724.2	1724.2	1719.1
30°	1688.3	1684.6	1673.6	1666.9	1661.8
32.5°	1635.0	1629.9	1616.0	1604.2	1600.5
35°	1575.6	1570.2	1551.7	1537.8	1531.9
37.5°	1518.0	1506.2	1481.9	1467.9	1461.2
40°	1450.8	1436.1	1411.2	1391.9	1388.9
42.5°	1378.8	1367.0	1334.6	1320.4	1316.9
45°	1302.2	1288.0	1263.6	1248.9	1237.9
47.5°	1226.9	1216.5	1188.6	1171.0	1167.2
50°	1147.9	1139.1	1110.5	1091.4	1084.7
52.5°	1066.3	1060.4	1036.0	1011.6	1003.6
55°	981.7	978.7	948.5	920.3	910.7
57.5°	898.4	894.6	856.9	824.5	815.6
60°	811.4	800.4	763.4	733.2	723.5
62.5°	728.9	705.3	665.4	641.9	630.9
65°	634.4	611.6	576.2	551.1	547.6
67.5°	541.7	514.4	487.1	471.5	459.8
70°	445.0	426.6	405.9	392.8	390.7
72.5°	355.1	341.9	331.5	323.5	316.8
75°	268.8	266.7	263.0	263.0	255.7
77.5°	197.6	202.7	205.6	204.8	206.5
80°	137.1	147.3	153.2	154.0	153.2
82.5°	87.0	98.8	108.4	109.8	111.4
85°	50.9	59.7	65.6	66.9	65.6
87.5°	22.8	28.7	30.3	31.6	30.3
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)