

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: P1051053

Luminaire Tested: 24PTR-50-PW1-L930-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1051053
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-L930-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 90 CRI LEDS AND WAVES LENS

Light Source:
Ballast/Driver: -

Summary

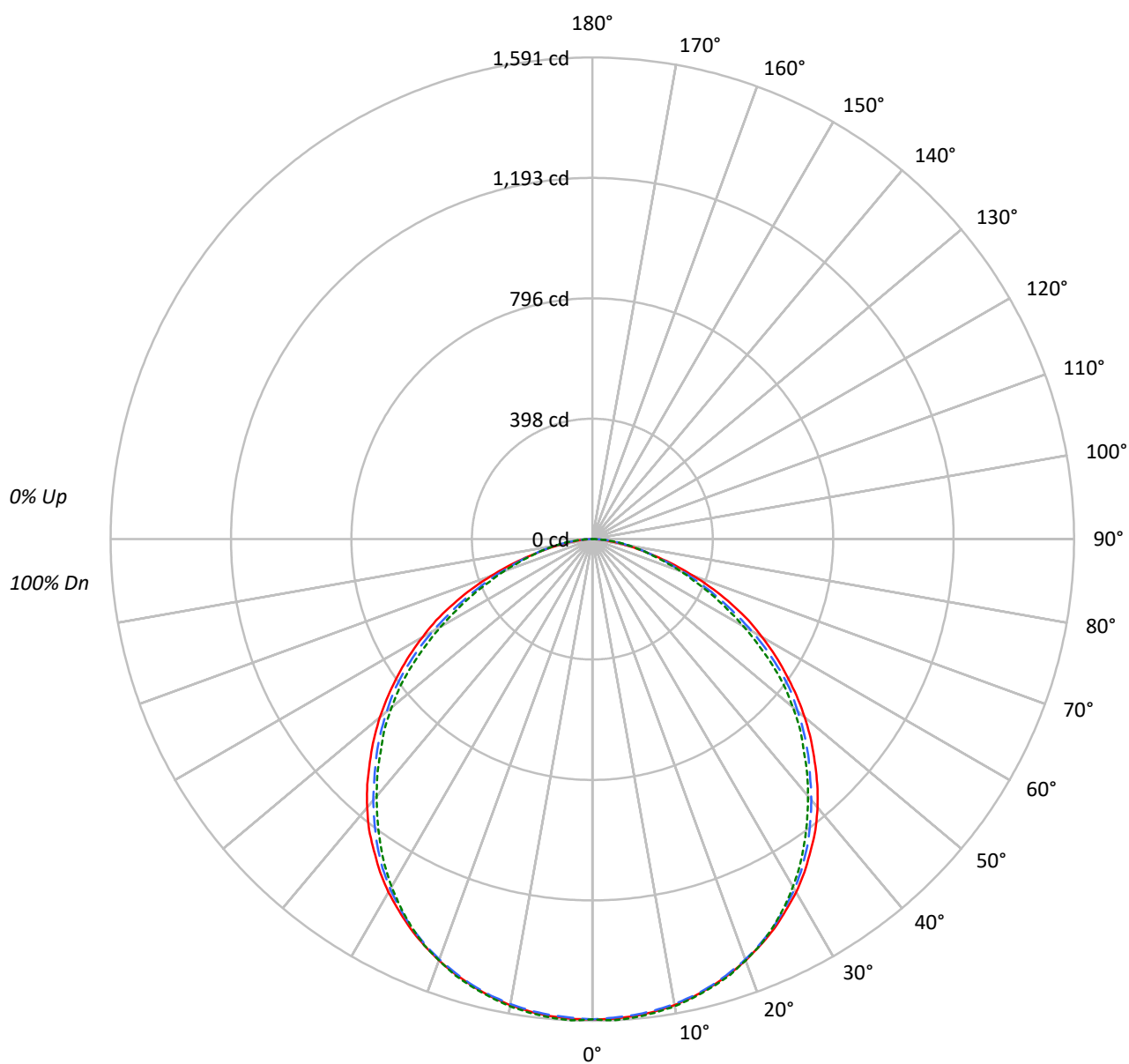
Lumens per Lamp: N/A
Luminaire Lumens: 4209.8 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2134	2134	2134
5°	2136	2132	2143
10°	2135	2131	2141
15°	2129	2126	2133
20°	2120	2115	2120
25°	2108	2099	2098
30°	2092	2074	2059
35°	2064	2033	2007
40°	2033	1977	1946
45°	1976	1918	1879
50°	1917	1854	1811
55°	1837	1775	1704
60°	1742	1639	1553
65°	1611	1463	1391
70°	1397	1274	1226
75°	1115	1090	1061
80°	848	947	947
85°	627	807	807

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1976 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.4	3.6
10°-20°	431.5	10.2
20°-30°	652.1	15.5
30°-40°	774.3	18.4
40°-50°	780.1	18.5
50°-60°	674.3	16.0
60°-70°	460.9	10.9
70°-80°	227.3	5.4
80°-90°	58.8	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°	1234.1	29.3
0°-40°	2008.4	47.7
0°-60°	3462.9	82.3
0°-90°	4209.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4209.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1586	1586	1586	1586	1586	
5°	1582	1582	1578	1585	1586	150
15°	1528	1530	1526	1531	1532	431
25°	1420	1419	1414	1416	1413	654
35°	1257	1252	1238	1227	1222	787
45°	1039	1027	1008	996	987	802
55°	783	781	756	734	726	700
65°	506	488	460	440	437	500
75°	214	213	210	210	204	234
85°	41	48	52	53	52	50
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1586.3	1586.3	1586.3	1586.3	1586.3
2.5°	1585.9	1586.3	1582.3	1589.3	1591.0
5°	1581.6	1582.3	1578.2	1584.6	1586.3
7.5°	1574.1	1575.2	1570.5	1576.9	1578.2
10°	1562.8	1563.5	1559.4	1565.8	1567.1
12.5°	1547.7	1548.1	1544.7	1550.4	1550.4
15°	1528.2	1529.9	1525.9	1531.2	1531.6
17.5°	1506.4	1507.1	1503.0	1508.8	1510.1
20°	1480.6	1480.6	1477.2	1481.9	1480.6
22.5°	1451.8	1451.8	1447.7	1450.1	1451.1
25°	1420.2	1418.9	1414.2	1415.5	1413.1
27.5°	1383.6	1383.6	1375.3	1375.3	1371.2
30°	1346.7	1343.7	1334.9	1329.6	1325.5
32.5°	1304.2	1300.1	1289.0	1279.6	1276.6
35°	1256.8	1252.5	1237.7	1226.6	1221.9
37.5°	1210.8	1201.4	1182.0	1170.9	1165.6
40°	1157.2	1145.5	1125.6	1110.2	1107.9
42.5°	1099.8	1090.4	1064.5	1053.2	1050.4
45°	1038.7	1027.4	1007.9	996.2	987.4
47.5°	978.7	970.3	948.1	934.0	931.0
50°	915.7	908.6	885.8	870.6	865.2
52.5°	850.5	845.8	826.4	806.9	800.5
55°	783.0	780.7	756.5	734.1	726.4
57.5°	716.6	713.6	683.5	657.6	650.6
60°	647.2	638.4	608.9	584.8	577.1
62.5°	581.4	562.6	530.8	512.0	503.2
65°	506.0	487.8	459.6	439.6	436.8
67.5°	432.1	410.3	388.5	376.1	366.7
70°	355.0	340.2	323.8	313.3	311.6
72.5°	283.2	272.8	264.4	258.0	252.7
75°	214.4	212.7	209.7	209.7	204.0
77.5°	157.6	161.7	164.0	163.4	164.7
80°	109.4	117.5	122.2	122.8	122.2
82.5°	69.4	78.8	86.5	87.6	88.9
85°	40.6	47.6	52.3	53.4	52.3
87.5°	18.2	22.9	24.1	25.2	24.1
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)