

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: P1050514

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

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050514
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2310-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-50-L930-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 90 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

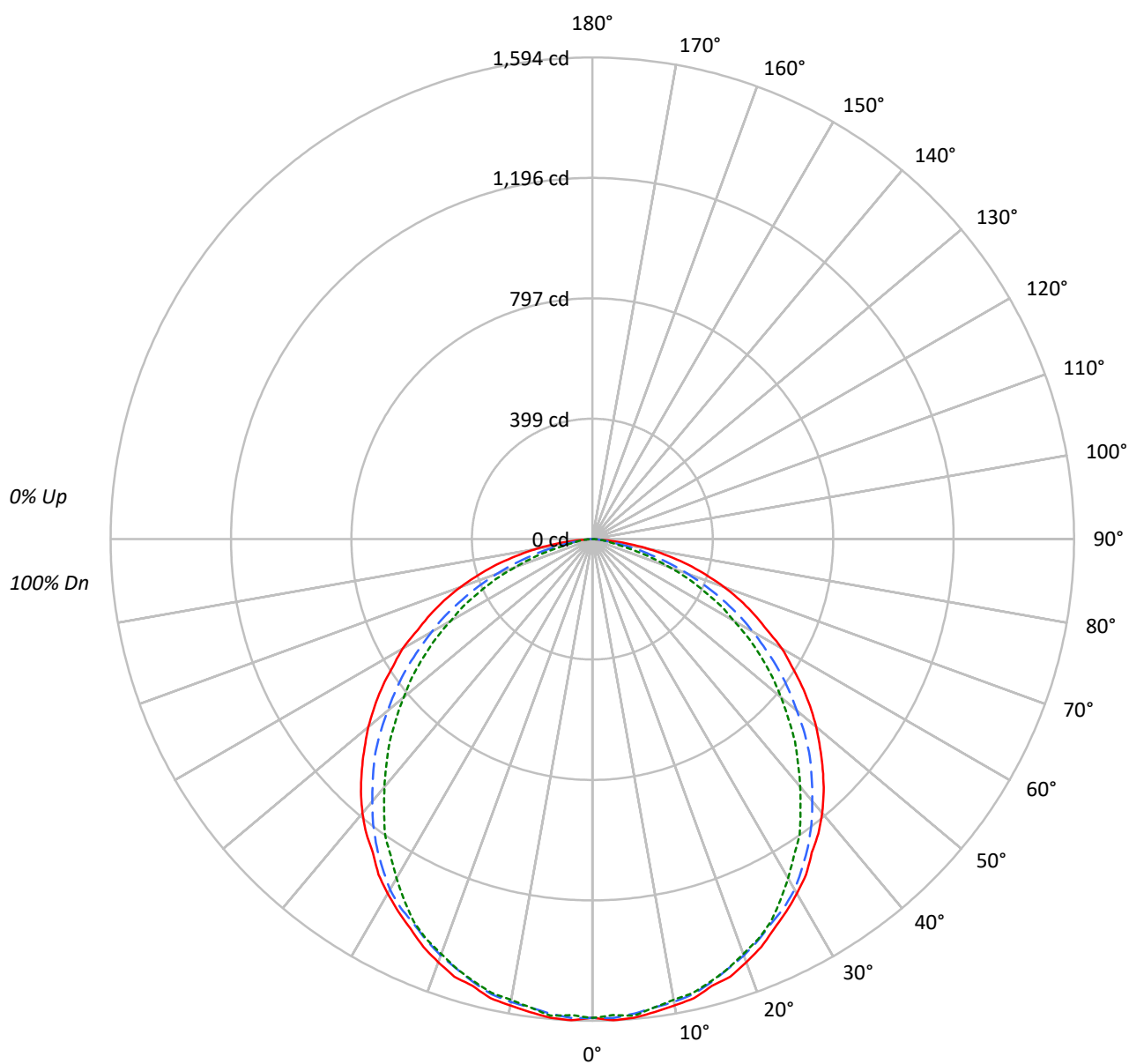
Lumens per Lamp: N/A
Luminaire Lumens: 4219.8 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	100		
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52		
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40		
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35		
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31		
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2132	2132	2132
5°	2147	2130	2138
10°	2141	2125	2115
15°	2132	2115	2111
20°	2133	2100	2091
25°	2112	2082	2075
30°	2104	2080	2013
35°	2080	2043	1964
40°	2078	1989	1879
45°	2052	1937	1804
50°	2024	1851	1706
55°	1985	1764	1602
60°	1950	1650	1455
65°	1883	1514	1301
70°	1823	1318	1062
75°	1712	1040	731
80°	1484	628	439
85°	991	451	423

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2052 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.2	3.6
10°-20°	429.7	10.2
20°-30°	649.1	15.4
30°-40°	771.7	18.3
40°-50°	782.7	18.5
50°-60°	679.7	16.1
60°-70°	482.5	11.4
70°-80°	230.6	5.5
80°-90°	43.7	1.0
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°	1229.0	29.1
0°-40°	2000.7	47.4
0°-60°	3463.0	82.1
0°-90°	4219.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4219.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1584	1584	1584	1584	1584	
5°	1590	1584	1577	1580	1583	151
15°	1530	1534	1518	1516	1515	434
25°	1423	1421	1402	1408	1397	657
35°	1266	1264	1244	1201	1196	796
45°	1078	1069	1018	964	948	832
55°	846	821	752	708	683	756
65°	592	547	476	425	409	586
75°	329	269	200	158	141	345
85°	64	34	29	28	27	81
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1584.2	1584.2	1584.2	1584.2	1584.2
2.5°	1593.6	1588.0	1586.1	1592.7	1576.7
5°	1589.9	1584.2	1576.7	1580.4	1583.3
7.5°	1578.5	1573.8	1563.4	1571.9	1563.4
10°	1567.2	1562.5	1555.0	1557.8	1548.3
12.5°	1555.9	1544.6	1542.7	1544.6	1538.0
15°	1530.4	1534.2	1518.2	1516.3	1515.3
17.5°	1518.2	1508.7	1491.7	1492.7	1490.8
20°	1489.8	1478.5	1466.3	1464.4	1460.6
22.5°	1460.6	1447.4	1436.1	1441.7	1433.2
25°	1422.9	1421.0	1402.1	1407.8	1397.4
27.5°	1389.8	1383.2	1374.7	1362.5	1347.4
30°	1354.0	1347.4	1338.9	1306.8	1295.5
32.5°	1316.2	1308.7	1291.7	1254.0	1241.7
35°	1266.2	1264.3	1243.6	1201.1	1195.5
37.5°	1228.5	1207.7	1190.7	1147.3	1131.3
40°	1183.2	1171.9	1132.2	1090.7	1070.0
42.5°	1133.2	1120.0	1074.7	1030.3	1007.7
45°	1078.5	1069.0	1018.1	964.3	948.3
47.5°	1021.9	1013.4	953.0	901.1	880.3
50°	967.1	956.7	884.1	834.1	815.2
52.5°	907.7	890.7	819.0	769.9	752.0
55°	846.4	820.9	752.0	707.7	683.1
57.5°	781.3	757.7	681.2	635.0	615.2
60°	724.6	691.6	613.3	566.1	540.6
62.5°	652.0	623.7	549.1	493.5	481.2
65°	591.6	547.3	475.5	424.6	408.6
67.5°	530.3	478.4	405.7	353.8	345.3
70°	463.3	409.5	335.0	284.0	269.9
72.5°	395.3	342.5	269.9	216.1	207.6
75°	329.3	268.9	200.0	158.5	140.6
77.5°	257.6	202.9	140.6	97.2	85.9
80°	191.5	136.8	81.1	57.6	56.6
82.5°	125.5	79.3	43.4	44.3	42.5
85°	64.2	34.0	29.2	28.3	27.4
87.5°	12.3	13.2	14.2	14.2	14.2
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)