

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: P1050765

Luminaire Tested: 24PTR-40-PL1-L940-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050765
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737719)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-40-PL1-L940-UNV-STD-W
Description: 4000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

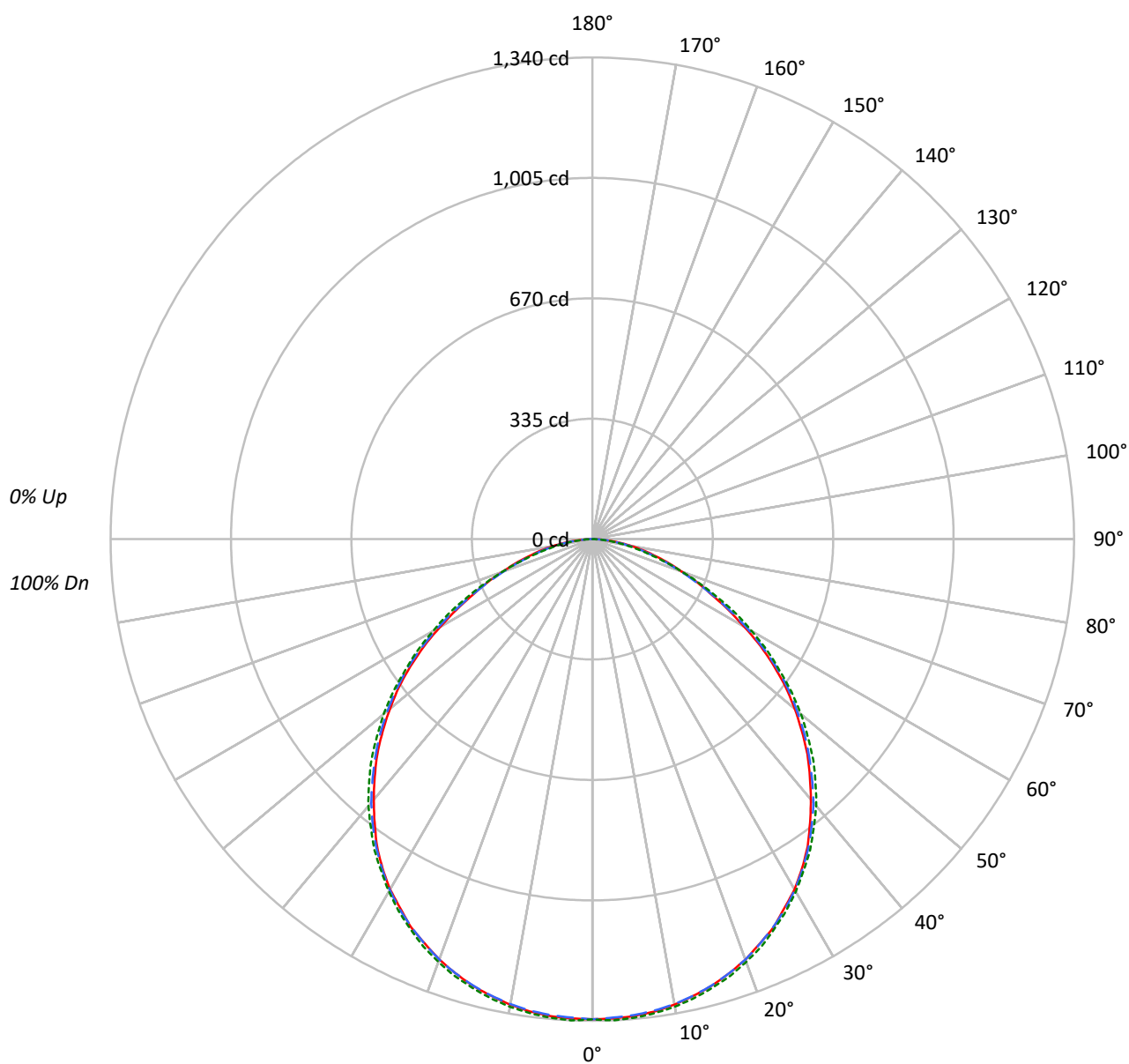
Lumens per Lamp: N/A
Luminaire Lumens: 3521.1 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33
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	94	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72		
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61		
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	52		
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	46		
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40		
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35		
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32		
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29		
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1797	1797	1797
5°	1799	1795	1805
10°	1796	1795	1805
15°	1791	1790	1799
20°	1782	1782	1792
25°	1770	1768	1777
30°	1748	1750	1759
35°	1714	1721	1735
40°	1661	1680	1702
45°	1609	1623	1654
50°	1539	1555	1586
55°	1449	1472	1490
60°	1314	1343	1376
65°	1167	1180	1228
70°	1044	1022	1048
75°	941	887	869
80°	855	794	705
85°	724	658	567

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1654 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.7	3.6
10°-20°	363.4	10.3
20°-30°	549.7	15.6
30°-40°	655.2	18.6
40°-50°	658.9	18.7
50°-60°	559.2	15.9
60°-70°	372.3	10.6
70°-80°	185.9	5.3
80°-90°	49.7	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°	1039.8	29.5
0°-40°	1695.1	48.1
0°-60°	2913.1	82.7
0°-90°	3521.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3521.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1336	1336	1336	1336	1336	
5°	1332	1332	1329	1335	1337	127
15°	1286	1287	1285	1291	1292	363
25°	1192	1192	1191	1196	1197	548
35°	1044	1045	1048	1055	1056	651
45°	846	847	853	864	869	651
55°	618	622	628	634	635	550
65°	367	370	371	376	386	368
75°	181	179	171	167	167	194
85°	47	46	43	40	37	54
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1335.8	1335.8	1335.8	1335.8	1335.8
2.5°	1334.7	1335.8	1332.2	1338.7	1340.3
5°	1331.8	1332.2	1329.3	1335.3	1336.7
7.5°	1325.4	1325.9	1322.8	1329.3	1330.2
10°	1314.9	1316.0	1313.5	1319.4	1320.9
12.5°	1301.6	1303.1	1300.5	1307.0	1308.1
15°	1285.8	1287.2	1285.3	1290.7	1291.7
17.5°	1266.4	1267.5	1266.4	1271.4	1274.3
20°	1244.6	1244.6	1244.6	1249.1	1251.6
22.5°	1217.5	1220.0	1218.9	1224.8	1227.4
25°	1192.3	1192.3	1190.7	1196.2	1197.1
27.5°	1157.0	1161.0	1160.6	1165.5	1166.6
30°	1124.9	1125.9	1126.5	1129.9	1131.9
32.5°	1085.8	1086.7	1088.3	1093.2	1093.7
35°	1043.7	1044.8	1047.7	1055.1	1056.2
37.5°	994.8	1000.2	1002.7	1010.7	1011.6
40°	945.7	949.2	956.7	965.0	968.9
42.5°	895.7	899.7	904.2	915.5	919.1
45°	845.8	847.2	852.8	864.1	869.1
47.5°	790.4	794.9	799.7	809.6	812.7
50°	735.0	739.8	742.9	751.7	757.6
52.5°	679.0	683.5	687.0	692.4	698.3
55°	617.7	622.0	627.6	633.6	635.0
57.5°	555.3	560.2	563.8	570.1	576.5
60°	488.4	494.0	498.9	504.8	511.3
62.5°	426.2	428.5	433.6	443.5	452.8
65°	366.7	369.7	370.6	376.2	385.6
67.5°	317.2	317.2	312.7	314.7	325.1
70°	265.3	263.3	259.9	257.9	266.3
72.5°	223.2	220.7	213.3	209.9	214.4
75°	181.1	178.6	170.7	166.7	167.2
77.5°	145.5	141.5	135.1	128.2	126.8
80°	110.4	108.8	102.5	96.0	91.0
82.5°	78.2	74.8	71.2	67.3	63.3
85°	46.9	46.0	42.6	40.1	36.7
87.5°	19.2	19.2	18.3	17.3	16.4
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)