

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: P1050261

Luminaire Tested: PTR-14-50-PL1-L940-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050261
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: PTR-14-50-PL1-L940-UNV-STD-W
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

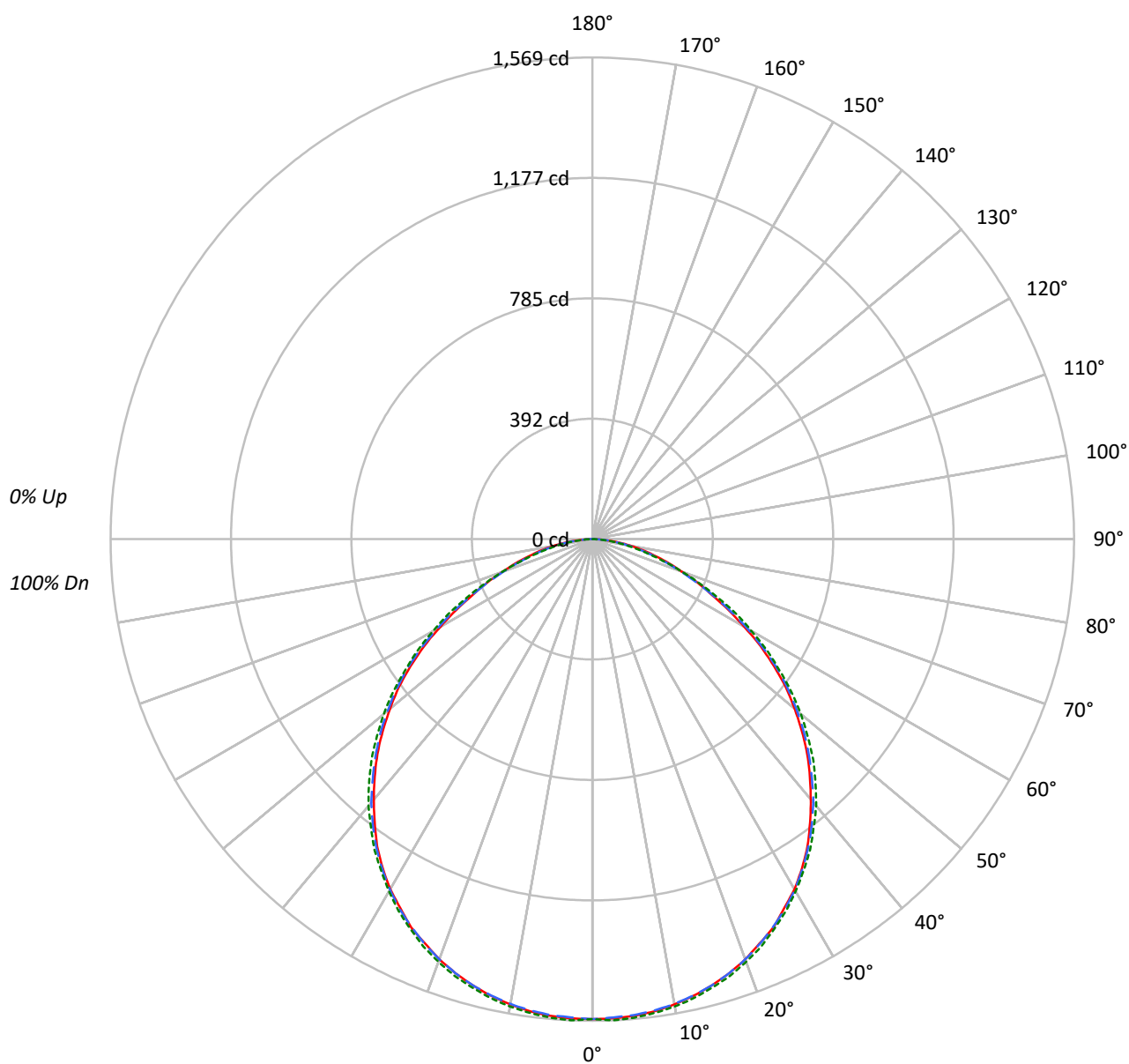
Lumens per Lamp: N/A
Luminaire Lumens: 4121.7 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 40.9
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	96	98	95	93	94	92	90	91	89	87	87	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	74	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	63	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	55	55	52
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	48	48	46
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	42	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	37	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	34	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	30	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4208	4208	4208
5°	4211	4203	4227
10°	4206	4201	4225
15°	4193	4191	4213
20°	4172	4172	4196
25°	4144	4138	4161
30°	4091	4097	4117
35°	4014	4029	4061
40°	3889	3934	3984
45°	3768	3799	3872
50°	3602	3641	3713
55°	3392	3447	3487
60°	3077	3143	3221
65°	2733	2763	2874
70°	2443	2393	2453
75°	2204	2077	2036
80°	2004	1860	1650
85°	1695	1541	1325

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3872 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.3	3.6
10°-20°	425.4	10.3
20°-30°	643.5	15.6
30°-40°	767.0	18.6
40°-50°	771.3	18.7
50°-60°	654.6	15.9
60°-70°	435.8	10.6
70°-80°	217.6	5.3
80°-90°	58.2	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°	1217.2	29.5
0°-40°	1984.2	48.1
0°-60°	3410.0	82.7
0°-90°	4121.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4121.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1564	1564	1564	1564	1564	
5°	1559	1559	1556	1563	1565	148
15°	1505	1507	1504	1511	1512	425
25°	1396	1396	1394	1400	1401	642
35°	1222	1223	1226	1235	1236	762
45°	990	992	998	1012	1017	762
55°	723	728	735	742	743	644
65°	429	433	434	440	451	430
75°	212	209	200	195	196	228
85°	55	54	50	47	43	64
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1563.7	1563.7	1563.7	1563.7	1563.7
2.5°	1562.4	1563.7	1559.4	1567.0	1568.9
5°	1559.0	1559.4	1556.1	1563.0	1564.7
7.5°	1551.4	1552.1	1548.5	1556.1	1557.1
10°	1539.2	1540.5	1537.5	1544.5	1546.2
12.5°	1523.7	1525.3	1522.4	1530.0	1531.2
15°	1505.1	1506.8	1504.5	1510.8	1512.1
17.5°	1482.4	1483.7	1482.4	1488.3	1491.7
20°	1456.9	1456.9	1456.9	1462.2	1465.1
22.5°	1425.1	1428.1	1426.8	1433.8	1436.7
25°	1395.7	1395.7	1393.8	1400.3	1401.3
27.5°	1354.4	1359.0	1358.6	1364.3	1365.6
30°	1316.7	1318.0	1318.6	1322.6	1324.9
32.5°	1271.0	1272.1	1274.0	1279.7	1280.3
35°	1221.8	1223.0	1226.4	1235.0	1236.3
37.5°	1164.5	1170.8	1173.8	1183.1	1184.1
40°	1107.1	1111.1	1119.9	1129.6	1134.2
42.5°	1048.5	1053.2	1058.4	1071.7	1075.9
45°	990.0	991.7	998.2	1011.5	1017.4
47.5°	925.2	930.4	936.1	947.7	951.3
50°	860.3	866.0	869.6	879.9	886.9
52.5°	794.9	800.1	804.1	810.5	817.4
55°	723.1	728.1	734.7	741.6	743.3
57.5°	650.0	655.7	659.9	667.3	674.9
60°	571.7	578.3	583.9	590.9	598.5
62.5°	498.9	501.6	507.5	519.1	530.1
65°	429.2	432.8	433.9	440.4	451.3
67.5°	371.3	371.3	366.1	368.4	380.6
70°	310.5	308.2	304.2	301.9	311.8
72.5°	261.2	258.3	249.7	245.7	250.9
75°	212.0	209.0	199.8	195.1	195.8
77.5°	170.3	165.7	158.1	150.1	148.4
80°	129.3	127.4	120.0	112.4	106.5
82.5°	91.6	87.6	83.4	78.7	74.1
85°	54.9	53.9	49.9	46.9	42.9
87.5°	22.5	22.5	21.5	20.2	19.2
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)