

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: P1050163

Luminaire Tested: PTR-14-50-PB1-L940-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050163
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737703)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: PTR-14-50-PB1-L940-UNV-STD-W
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND BEVEL LENS

Light Source:
Ballast/Driver: -

Summary

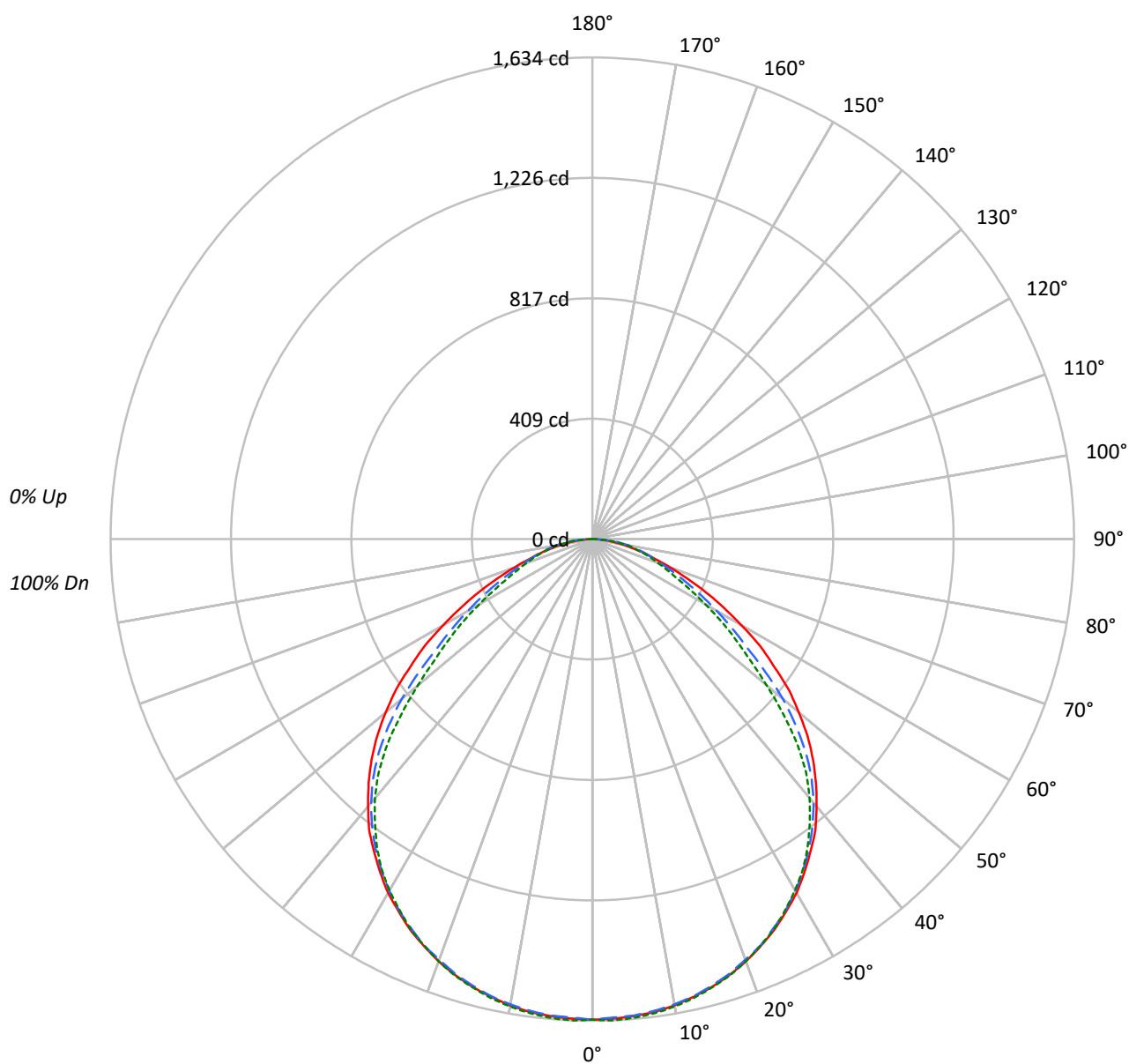
Lumens per Lamp: N/A
Luminaire Lumens: 4064.9 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	88	88	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	75	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64	64	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	56	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	49	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	44	44	42
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	39	39	37
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	35	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	32	32	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	29	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4387	4387	4387
5°	4387	4382	4404
10°	4389	4378	4400
15°	4380	4369	4385
20°	4364	4347	4364
25°	4340	4322	4334
30°	4305	4281	4274
35°	4242	4209	4183
40°	4156	4100	4029
45°	4029	3899	3739
50°	3828	3534	3231
55°	3528	3001	2784
60°	3140	2623	2385
65°	2694	2273	2031
70°	2224	2004	1862
75°	1876	1917	1814
80°	1585	1957	1866
85°	1241	1982	1735

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4029 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.6	3.8
10°-20°	443.5	10.9
20°-30°	671.9	16.5
30°-40°	800.6	19.7
40°-50°	782.8	19.3
50°-60°	592.1	14.6
60°-70°	363.8	8.9
70°-80°	193.8	4.8
80°-90°	61.8	1.5
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°	1270.0	31.2
0°-40°	2070.5	50.9
0°-60°	3445.5	84.8
0°-90°	4064.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4064.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1630	1630	1630	1630	1630	
5°	1624	1626	1622	1628	1630	155
15°	1572	1574	1568	1574	1574	444
25°	1462	1460	1456	1458	1460	673
35°	1291	1289	1281	1275	1273	808
45°	1059	1053	1024	990	982	814
55°	752	714	640	604	593	673
65°	423	389	357	329	319	421
75°	180	182	184	178	174	193
85°	40	52	64	60	56	48
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1630.2	1630.2	1630.2	1630.2	1630.2
2.5°	1628.3	1630.2	1624.1	1632.3	1634.2
5°	1624.1	1626.2	1622.2	1628.3	1630.2
7.5°	1618.2	1618.2	1614.2	1620.1	1622.2
10°	1606.2	1606.2	1602.2	1608.1	1610.2
12.5°	1590.2	1590.2	1588.1	1592.1	1594.2
15°	1572.1	1574.0	1568.1	1574.0	1574.0
17.5°	1550.0	1548.1	1546.0	1550.0	1552.1
20°	1523.9	1523.9	1518.0	1522.0	1523.9
22.5°	1493.8	1493.8	1491.9	1493.8	1491.9
25°	1461.8	1459.7	1455.7	1457.8	1459.7
27.5°	1423.7	1423.7	1419.7	1419.7	1417.6
30°	1385.6	1383.5	1377.6	1373.6	1375.5
32.5°	1339.5	1337.4	1331.5	1327.5	1329.4
35°	1291.3	1289.4	1281.4	1275.3	1273.4
37.5°	1243.3	1237.2	1227.1	1219.1	1211.1
40°	1183.1	1177.0	1167.1	1149.0	1146.8
42.5°	1122.8	1117.0	1100.7	1078.9	1072.7
45°	1058.6	1052.8	1024.5	990.4	982.4
47.5°	990.4	980.5	936.3	894.2	878.2
50°	914.4	896.3	844.1	790.0	771.9
52.5°	840.1	808.1	739.9	691.7	673.8
55°	751.9	713.8	639.7	603.5	593.4
57.5°	673.8	621.6	561.4	525.4	517.4
60°	583.5	535.3	487.3	455.1	443.1
62.5°	501.2	459.1	419.1	390.9	377.0
65°	423.1	389.0	357.0	328.8	318.9
67.5°	346.9	328.8	302.7	280.8	274.7
70°	282.7	272.6	254.7	244.6	236.6
72.5°	224.6	228.6	216.6	212.6	206.5
75°	180.4	182.5	184.4	178.5	174.5
77.5°	136.4	146.3	154.3	150.3	146.3
80°	102.3	112.2	126.3	120.4	120.4
82.5°	70.1	82.3	94.3	90.3	88.2
85°	40.2	52.2	64.2	60.2	56.2
87.5°	16.0	26.1	28.0	28.0	26.1
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)