

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: P1050299

Luminaire Tested: PTR-14-40-PLG-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050299
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2409-224-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: PTR-14-40-PLG-L840-UNV-STD-W
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

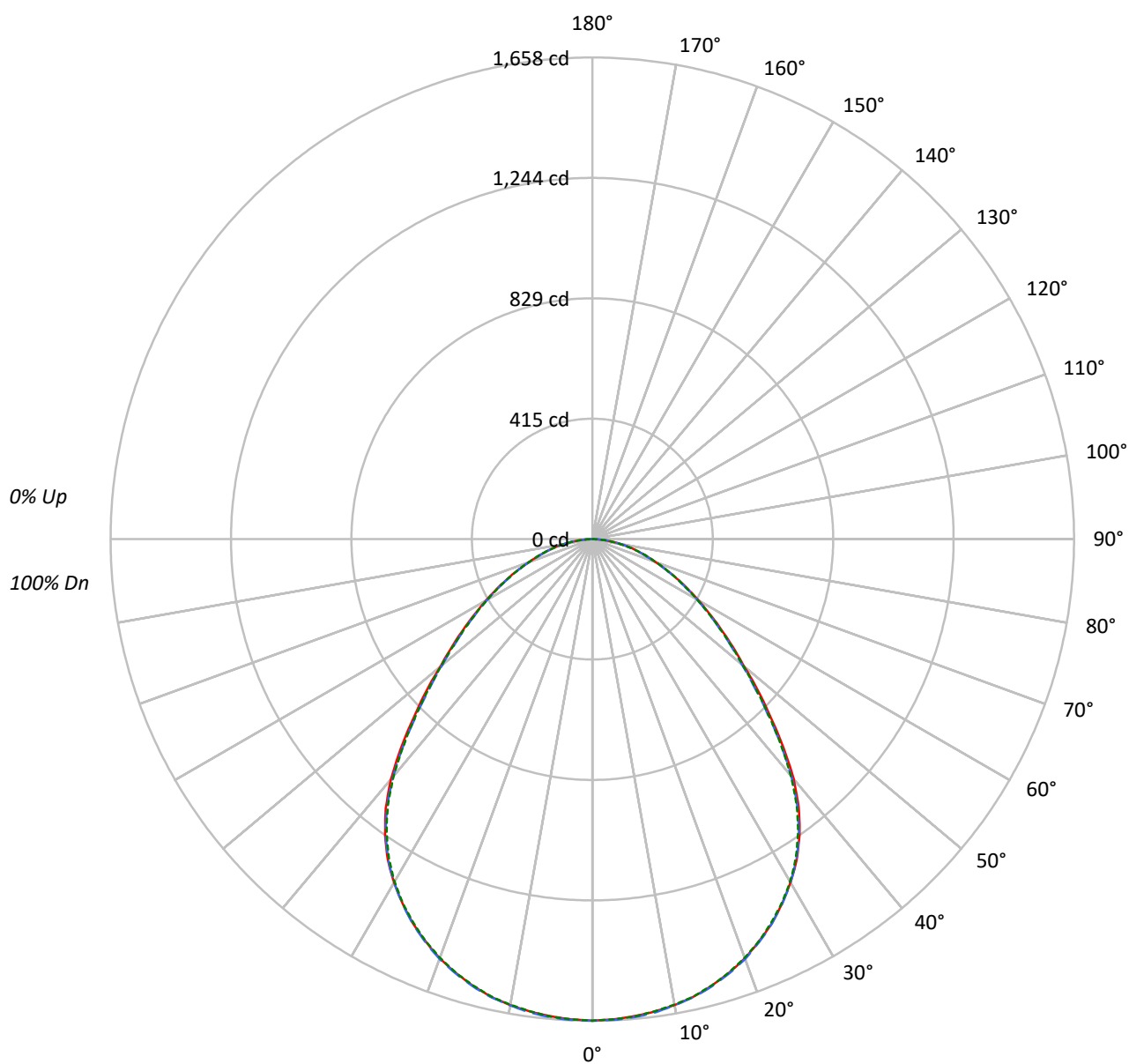
Lumens per Lamp: N/A
Luminaire Lumens: 3735.8 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 32.1
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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86	84	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74	72	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	69	66	64	62	64
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56	54	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49	47	49
6	74	61	53	47	72	60	52	47	58	51	46	57	51	46	55	50	45	43	41	43
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39	37	39
8	64	51	43	38	62	51	43	38	49	42	37	48	42	37	47	41	37	35	33	35
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32	30	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29	27	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4461	4461	4461
5°	4453	4463	4456
10°	4450	4453	4447
15°	4432	4439	4429
20°	4397	4404	4391
25°	4336	4339	4325
30°	4241	4241	4230
35°	4086	4074	4055
40°	3786	3745	3732
45°	3309	3255	3269
50°	2857	2822	2838
55°	2540	2501	2506
60°	2273	2242	2242
65°	2038	2023	2031
70°	1833	1814	1833
75°	1701	1676	1701
80°	1587	1568	1514
85°	1343	1343	1198

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3309 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.0	4.2
10°-20°	449.1	12.0
20°-30°	672.1	18.0
30°-40°	770.0	20.6
40°-50°	665.9	17.8
50°-60°	482.0	12.9
60°-70°	317.4	8.5
70°-80°	172.8	4.6
80°-90°	49.5	1.3
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°	1278.2	34.2
0°-40°	2048.1	54.8
0°-60°	3196.0	85.6
0°-90°	3735.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3735.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1658	1658	1658	1658	1658	
5°	1648	1652	1652	1652	1650	157
15°	1591	1592	1593	1596	1590	449
25°	1460	1460	1461	1463	1457	672
35°	1244	1243	1240	1239	1234	773
45°	870	867	855	854	859	673
55°	541	539	533	530	534	487
65°	320	322	318	315	319	320
75°	164	164	161	161	164	174
85°	44	44	44	45	39	50
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1657.9	1657.9	1657.9	1657.9	1657.9
2.5°	1654.4	1657.9	1656.8	1657.9	1654.4
5°	1648.5	1652.1	1652.1	1652.1	1649.7
7.5°	1640.3	1642.6	1643.8	1645.0	1639.1
10°	1628.5	1630.9	1629.7	1632.0	1627.3
12.5°	1613.2	1613.2	1614.4	1616.8	1612.0
15°	1590.9	1592.0	1593.2	1595.6	1589.7
17.5°	1565.0	1566.2	1567.3	1568.5	1563.8
20°	1535.6	1535.6	1537.9	1539.1	1533.2
22.5°	1499.1	1499.1	1501.4	1505.0	1497.9
25°	1460.3	1460.3	1461.4	1462.6	1456.7
27.5°	1414.4	1414.4	1415.5	1419.1	1412.0
30°	1364.9	1363.8	1364.9	1366.1	1361.4
32.5°	1309.6	1308.5	1307.3	1308.5	1302.6
35°	1243.7	1242.6	1240.2	1239.0	1234.3
37.5°	1167.3	1164.9	1160.2	1160.2	1155.5
40°	1077.8	1072.0	1066.1	1063.7	1062.5
42.5°	974.3	969.6	961.3	960.2	960.2
45°	869.6	867.2	855.4	854.3	859.0
47.5°	775.4	769.5	759.0	756.6	763.7
50°	682.5	683.6	674.2	670.7	677.8
52.5°	609.5	607.2	598.9	596.6	602.5
55°	541.3	538.9	533.0	529.5	534.2
57.5°	478.9	477.7	471.8	470.7	473.0
60°	422.4	421.2	416.5	415.4	416.5
62.5°	369.5	369.5	364.8	362.4	365.9
65°	320.1	322.4	317.7	315.3	318.9
67.5°	275.3	277.7	273.0	270.6	275.3
70°	233.0	235.3	230.6	228.3	233.0
72.5°	196.5	197.7	194.2	193.0	198.9
75°	163.6	163.6	161.2	161.2	163.6
77.5°	133.0	131.8	130.6	130.6	128.3
80°	102.4	101.2	101.2	101.2	97.7
82.5°	73.0	70.6	71.8	73.0	67.1
85°	43.5	43.5	43.5	44.7	38.8
87.5°	17.7	17.7	16.5	17.7	15.3
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)