

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: P1050776

Luminaire Tested: 24PTR-40-PLG-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050776
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: 24PTR-40-PLG-L830-UNV-STD-W
Description: 4000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

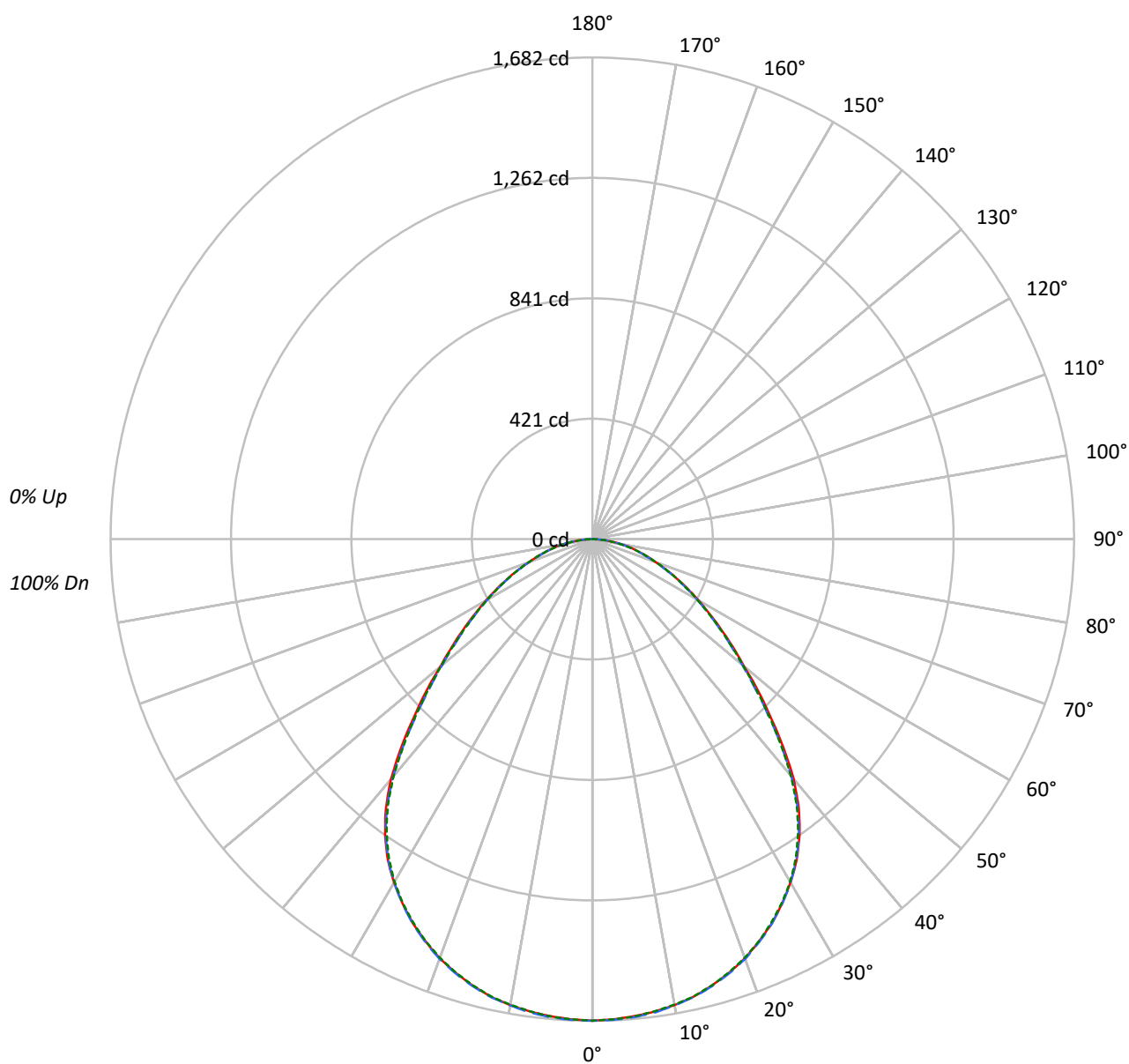
Lumens per Lamp: N/A
Luminaire Lumens: 3789.8 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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°	2263	2263	2263
5°	2259	2264	2260
10°	2257	2259	2256
15°	2248	2251	2246
20°	2231	2234	2227
25°	2199	2201	2194
30°	2151	2151	2146
35°	2072	2066	2057
40°	1920	1900	1893
45°	1678	1651	1658
50°	1449	1432	1439
55°	1288	1268	1271
60°	1153	1137	1137
65°	1034	1026	1030
70°	930	921	930
75°	862	850	862
80°	805	796	768
85°	682	682	608

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1678 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	4.2
10°-20°	455.6	12.0
20°-30°	681.8	18.0
30°-40°	781.1	20.6
40°-50°	675.5	17.8
50°-60°	488.9	12.9
60°-70°	322.0	8.5
70°-80°	175.3	4.6
80°-90°	50.3	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°	1296.6	34.2
0°-40°	2077.7	54.8
0°-60°	3242.2	85.6
0°-90°	3789.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3789.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1682	1682	1682	1682	1682	
5°	1672	1676	1676	1676	1674	159
15°	1614	1615	1616	1619	1613	455
25°	1481	1481	1482	1484	1478	681
35°	1262	1260	1258	1257	1252	784
45°	882	880	868	867	871	683
55°	549	547	541	537	542	494
65°	325	327	322	320	324	324
75°	166	166	164	164	166	177
85°	44	44	44	45	39	51
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1681.9	1681.9	1681.9	1681.9	1681.9
2.5°	1678.3	1681.9	1680.7	1681.9	1678.3
5°	1672.3	1675.9	1675.9	1675.9	1673.5
7.5°	1664.0	1666.4	1667.6	1668.8	1662.8
10°	1652.1	1654.4	1653.2	1655.6	1650.9
12.5°	1636.5	1636.5	1637.7	1640.1	1635.3
15°	1613.9	1615.0	1616.2	1618.6	1612.7
17.5°	1587.6	1588.8	1590.0	1591.2	1586.4
20°	1557.8	1557.8	1560.1	1561.3	1555.4
22.5°	1520.7	1520.7	1523.1	1526.7	1519.6
25°	1481.4	1481.4	1482.5	1483.7	1477.8
27.5°	1434.8	1434.8	1436.0	1439.6	1432.4
30°	1384.7	1383.5	1384.7	1385.9	1381.1
32.5°	1328.6	1327.4	1326.2	1327.4	1321.4
35°	1261.7	1260.5	1258.1	1256.9	1252.2
37.5°	1184.1	1181.7	1177.0	1177.0	1172.2
40°	1093.4	1087.4	1081.5	1079.1	1077.9
42.5°	988.4	983.6	975.2	974.0	974.0
45°	882.1	879.7	867.8	866.6	871.4
47.5°	786.6	780.7	769.9	767.5	774.7
50°	692.3	693.5	684.0	680.4	687.6
52.5°	618.3	615.9	607.6	605.2	611.2
55°	549.1	546.7	540.7	537.2	541.9
57.5°	485.8	484.6	478.7	477.5	479.9
60°	428.5	427.3	422.6	421.4	422.6
62.5°	374.8	374.8	370.0	367.7	371.2
65°	324.7	327.1	322.3	319.9	323.5
67.5°	279.3	281.7	276.9	274.5	279.3
70°	236.3	238.7	234.0	231.6	236.3
72.5°	199.3	200.5	197.0	195.8	201.7
75°	165.9	165.9	163.5	163.5	165.9
77.5°	134.9	133.7	132.5	132.5	130.1
80°	103.9	102.7	102.7	102.7	99.1
82.5°	74.0	71.6	72.8	74.0	68.0
85°	44.2	44.2	44.2	45.4	39.4
87.5°	17.9	17.9	16.7	17.9	15.5
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)