

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: P1050501

Luminaire Tested: 24PTR-40-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050501
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2310-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-40-L850-UNV-STD-W
Description: 4000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

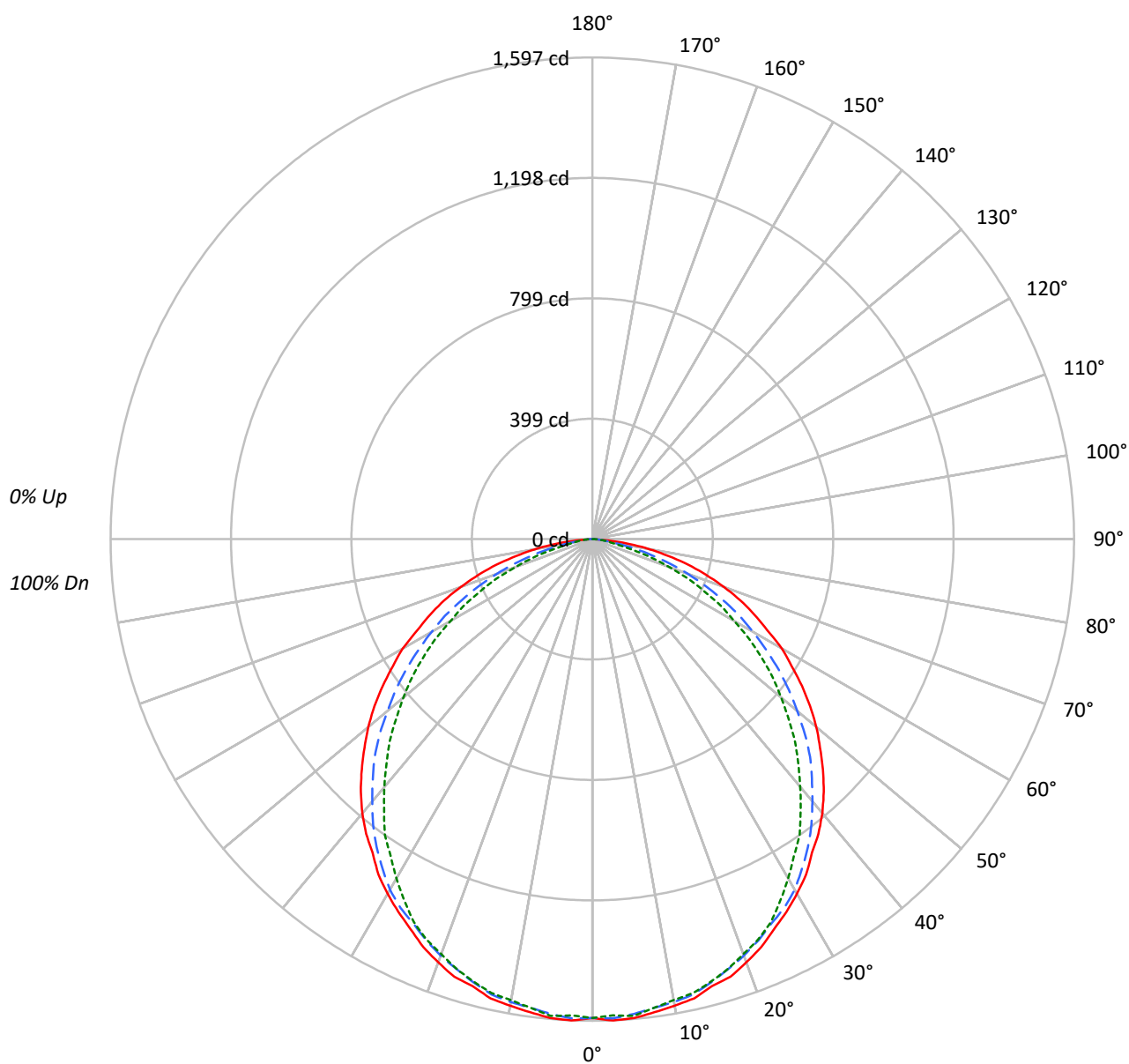
Lumens per Lamp: N/A
Luminaire Lumens: 4229.7 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	87	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	74	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	63	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	54	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	42	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	37	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	33	33	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	30	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	27	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2137	2137	2137
5°	2152	2135	2143
10°	2146	2129	2120
15°	2137	2120	2116
20°	2138	2104	2096
25°	2117	2086	2079
30°	2109	2085	2017
35°	2085	2047	1968
40°	2083	1993	1884
45°	2057	1942	1809
50°	2029	1855	1710
55°	1990	1768	1606
60°	1954	1654	1458
65°	1888	1518	1304
70°	1827	1321	1064
75°	1716	1042	732
80°	1488	630	439
85°	993	452	423

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2057 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.5	3.6
10°-20°	430.7	10.2
20°-30°	650.6	15.4
30°-40°	773.5	18.3
40°-50°	784.5	18.5
50°-60°	681.2	16.1
60°-70°	483.6	11.4
70°-80°	231.1	5.5
80°-90°	43.8	1.0
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°	1231.8	29.1
0°-40°	2005.4	47.4
0°-60°	3471.2	82.1
0°-90°	4229.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4229.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1588	1588	1588	1588	1588	
5°	1594	1588	1580	1584	1587	151
15°	1534	1538	1522	1520	1519	435
25°	1426	1424	1405	1411	1401	659
35°	1269	1267	1246	1204	1198	798
45°	1081	1072	1020	967	950	834
55°	848	823	754	709	685	758
65°	593	548	477	426	410	587
75°	330	270	200	159	141	346
85°	64	34	29	28	27	81
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1587.9	1587.9	1587.9	1587.9	1587.9
2.5°	1597.4	1591.7	1589.8	1596.4	1580.4
5°	1593.6	1587.9	1580.4	1584.1	1587.0
7.5°	1582.2	1577.5	1567.1	1575.6	1567.1
10°	1570.9	1566.2	1558.6	1561.4	1552.0
12.5°	1559.5	1548.2	1546.3	1548.2	1541.6
15°	1534.0	1537.8	1521.7	1519.8	1518.9
17.5°	1521.7	1512.3	1495.2	1496.2	1494.3
20°	1493.3	1482.0	1469.7	1467.8	1464.0
22.5°	1464.0	1450.8	1439.4	1445.1	1436.6
25°	1426.2	1424.3	1405.4	1411.1	1400.7
27.5°	1393.1	1386.5	1378.0	1365.7	1350.5
30°	1357.2	1350.5	1342.0	1309.9	1298.5
32.5°	1319.3	1311.8	1294.7	1256.9	1244.6
35°	1269.2	1267.3	1246.5	1203.9	1198.3
37.5°	1231.4	1210.6	1193.5	1150.0	1134.0
40°	1186.0	1174.6	1134.9	1093.3	1072.5
42.5°	1135.8	1122.6	1077.2	1032.8	1010.1
45°	1081.0	1071.5	1020.5	966.6	950.5
47.5°	1024.2	1015.7	955.2	903.2	882.4
50°	969.4	959.0	886.2	836.0	817.1
52.5°	909.8	892.8	820.9	771.7	753.8
55°	848.3	822.8	753.8	709.3	684.7
57.5°	783.1	759.4	682.8	636.5	616.6
60°	726.3	693.2	614.7	567.5	541.9
62.5°	653.5	625.1	550.4	494.6	482.3
65°	593.0	548.5	476.7	425.6	409.5
67.5°	531.5	479.5	406.7	354.7	346.1
70°	464.4	410.5	335.7	284.7	270.5
72.5°	396.3	343.3	270.5	216.6	208.1
75°	330.1	269.5	200.5	158.9	140.9
77.5°	258.2	203.3	140.9	97.4	86.1
80°	192.0	137.1	81.3	57.7	56.7
82.5°	125.8	79.4	43.5	44.5	42.6
85°	64.3	34.0	29.3	28.4	27.4
87.5°	12.3	13.2	14.2	14.2	14.2
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)