

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: P1050732

Luminaire Tested: 24PTR-40-PL1-L850-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050732
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: 24PTR-40-PL1-L850-UNV-STD-W
Description: 4000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

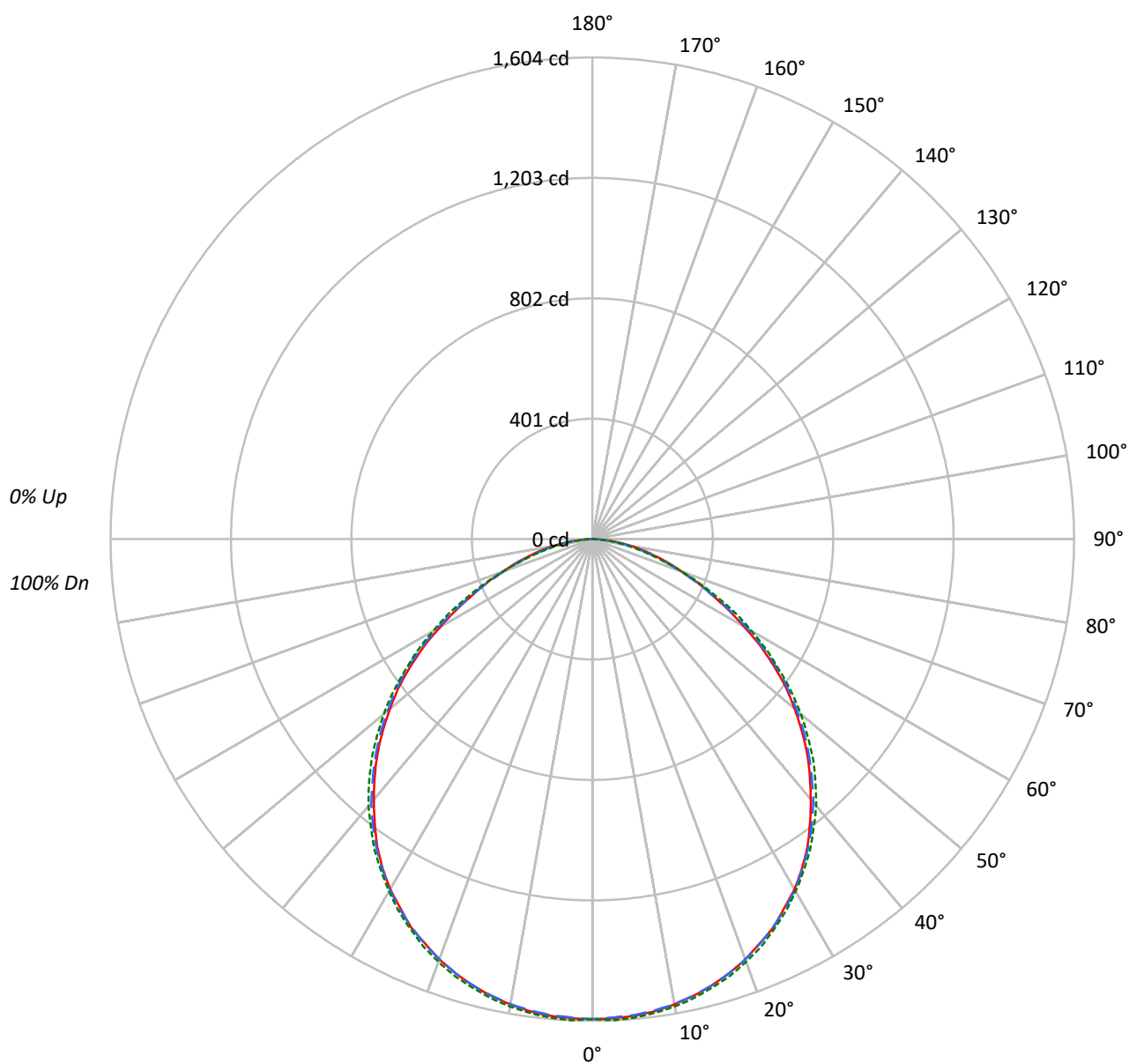
Lumens per Lamp: N/A
Luminaire Lumens: 4213.7 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1050732

CATALOG NUMBER: 24PTR-40-PL1-L850-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1050732

CATALOG NUMBER: 24PTR-40-PL1-L850-UNV-STD-W

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°	2151	2151	2151
5°	2153	2149	2160
10°	2150	2148	2160
15°	2143	2143	2153
20°	2133	2133	2145
25°	2118	2115	2127
30°	2091	2094	2104
35°	2052	2059	2076
40°	1988	2011	2037
45°	1926	1942	1979
50°	1841	1861	1898
55°	1734	1762	1783
60°	1573	1607	1646
65°	1397	1412	1469
70°	1249	1223	1254
75°	1127	1062	1040
80°	1024	951	844
85°	868	787	678

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1979 cd/sqm

TEST NUMBER: P1050732

CATALOG NUMBER: 24PTR-40-PL1-L850-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.6	3.6
10°-20°	434.9	10.3
20°-30°	657.8	15.6
30°-40°	784.1	18.6
40°-50°	788.5	18.7
50°-60°	669.2	15.9
60°-70°	445.6	10.6
70°-80°	222.5	5.3
80°-90°	59.5	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°	1244.4	29.5
0°-40°	2028.5	48.1
0°-60°	3486.2	82.7
0°-90°	4213.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4213.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1598	1598	1598	1598	1598	
5°	1594	1594	1591	1598	1600	151
15°	1539	1540	1538	1544	1546	434
25°	1427	1427	1425	1432	1433	656
35°	1249	1250	1254	1263	1264	779
45°	1012	1014	1020	1034	1040	779
55°	739	744	751	758	760	659
65°	439	442	444	450	461	440
75°	217	214	204	200	200	233
85°	56	55	51	48	44	65
90°	0	0	0	0	0	

TEST NUMBER: P1050732

CATALOG NUMBER: 24PTR-40-PL1-L850-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1598.5	1598.5	1598.5	1598.5	1598.5
2.5°	1597.2	1598.5	1594.2	1602.0	1603.9
5°	1593.8	1594.2	1590.8	1597.9	1599.6
7.5°	1586.1	1586.7	1583.0	1590.8	1591.9
10°	1573.6	1574.9	1571.9	1579.0	1580.7
12.5°	1557.7	1559.4	1556.4	1564.1	1565.4
15°	1538.7	1540.4	1538.1	1544.5	1545.8
17.5°	1515.5	1516.8	1515.5	1521.5	1524.9
20°	1489.4	1489.4	1489.4	1494.8	1497.8
22.5°	1456.9	1459.9	1458.7	1465.8	1468.8
25°	1426.8	1426.8	1424.9	1431.5	1432.6
27.5°	1384.6	1389.4	1388.9	1394.7	1396.0
30°	1346.1	1347.4	1348.0	1352.1	1354.5
32.5°	1299.4	1300.5	1302.4	1308.2	1308.9
35°	1249.0	1250.3	1253.8	1262.6	1263.9
37.5°	1190.5	1197.0	1200.0	1209.5	1210.5
40°	1131.8	1135.9	1144.9	1154.8	1159.5
42.5°	1071.9	1076.7	1082.0	1095.6	1099.9
45°	1012.1	1013.8	1020.5	1034.1	1040.1
47.5°	945.8	951.2	957.0	968.9	972.5
50°	879.5	885.4	889.0	899.6	906.7
52.5°	812.6	818.0	822.1	828.5	835.6
55°	739.2	744.4	751.1	758.2	759.9
57.5°	664.6	670.4	674.7	682.2	689.9
60°	584.5	591.2	597.0	604.1	611.8
62.5°	510.0	512.8	518.9	530.7	541.9
65°	438.8	442.5	443.5	450.2	461.4
67.5°	379.6	379.6	374.2	376.6	389.1
70°	317.4	315.1	311.0	308.6	318.7
72.5°	267.1	264.1	255.2	251.1	256.5
75°	216.7	213.7	204.2	199.5	200.1
77.5°	174.1	169.4	161.6	153.4	151.7
80°	132.1	130.2	122.7	114.9	108.9
82.5°	93.6	89.5	85.2	80.5	75.8
85°	56.2	55.1	51.0	48.0	43.9
87.5°	23.0	23.0	22.0	20.7	19.6
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)