

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: P1051075

Luminaire Tested: 24PTR-50-PW1-L940-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1051075
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737743)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-50-PW1-L940-UNV-STD-W
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND WAVES LENS

Light Source:
Ballast/Driver: -

Summary

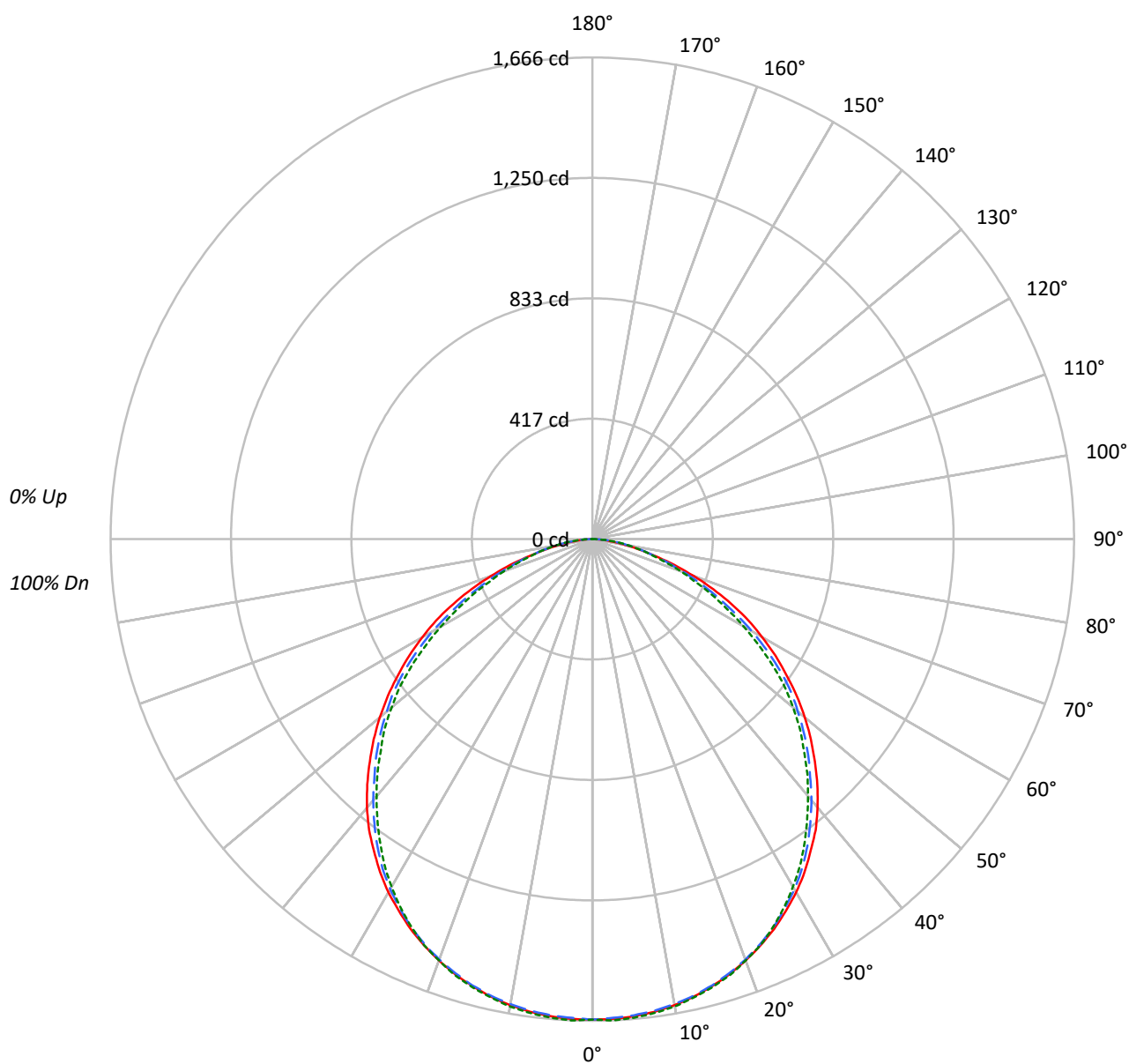
Lumens per Lamp: N/A
Luminaire Lumens: 4409.6 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41
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	95	98	95	92	94	92	90	91	89	87	87	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	74	74	71
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	57	68	61	56	66	60	55	64	59	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	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	33	33	31
9	58	44	36	31	56	44	36	31	43	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	28	38	32	27	27	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2236	2236	2236
5°	2238	2233	2244
10°	2237	2232	2243
15°	2230	2226	2235
20°	2221	2215	2221
25°	2208	2199	2197
30°	2192	2172	2157
35°	2162	2130	2102
40°	2129	2071	2038
45°	2070	2009	1968
50°	2008	1942	1897
55°	1924	1859	1785
60°	1824	1716	1627
65°	1687	1533	1457
70°	1463	1334	1284
75°	1168	1142	1111
80°	887	992	992
85°	656	846	846

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2070 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.6	3.6
10°-20°	452.0	10.2
20°-30°	683.1	15.5
30°-40°	811.1	18.4
40°-50°	817.2	18.5
50°-60°	706.3	16.0
60°-70°	482.8	10.9
70°-80°	238.1	5.4
80°-90°	61.6	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°	1292.7	29.3
0°-40°	2103.7	47.7
0°-60°	3627.2	82.3
0°-90°	4409.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4409.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1662	1662	1662	1662	1662	
5°	1657	1657	1653	1660	1662	158
15°	1601	1603	1598	1604	1604	452
25°	1488	1486	1481	1483	1480	685
35°	1316	1312	1296	1285	1280	824
45°	1088	1076	1056	1044	1034	840
55°	820	818	792	769	761	733
65°	530	511	482	460	458	523
75°	225	223	220	220	214	245
85°	42	50	55	56	55	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1661.6	1661.6	1661.6	1661.6	1661.6
2.5°	1661.2	1661.6	1657.4	1664.8	1666.5
5°	1656.7	1657.4	1653.1	1659.8	1661.6
7.5°	1648.9	1650.0	1645.1	1651.8	1653.1
10°	1637.0	1637.7	1633.4	1640.1	1641.5
12.5°	1621.1	1621.6	1618.0	1624.0	1624.0
15°	1600.8	1602.6	1598.3	1603.9	1604.3
17.5°	1577.9	1578.6	1574.4	1580.4	1581.7
20°	1550.9	1550.9	1547.3	1552.2	1550.9
22.5°	1520.7	1520.7	1516.4	1518.9	1520.0
25°	1487.6	1486.2	1481.3	1482.6	1480.2
27.5°	1449.3	1449.3	1440.6	1440.6	1436.3
30°	1410.6	1407.5	1398.3	1392.7	1388.4
32.5°	1366.1	1361.8	1350.2	1340.3	1337.2
35°	1316.4	1311.9	1296.5	1284.9	1279.9
37.5°	1268.3	1258.5	1238.1	1226.5	1220.9
40°	1212.2	1199.8	1179.0	1162.9	1160.5
42.5°	1152.0	1142.1	1115.1	1103.2	1100.3
45°	1088.0	1076.1	1055.8	1043.5	1034.3
47.5°	1025.1	1016.4	993.1	978.4	975.2
50°	959.1	951.7	927.8	911.9	906.3
52.5°	890.9	886.0	865.6	845.2	838.5
55°	820.2	817.7	792.4	768.9	760.9
57.5°	750.6	747.5	715.9	688.9	681.5
60°	677.9	668.7	637.8	612.6	604.5
62.5°	609.0	589.3	556.0	536.3	527.1
65°	530.0	511.0	481.5	460.4	457.5
67.5°	452.6	429.8	407.0	394.0	384.1
70°	371.8	356.4	339.2	328.2	326.4
72.5°	296.7	285.7	277.0	270.3	264.7
75°	224.6	222.8	219.7	219.7	213.7
77.5°	165.1	169.4	171.8	171.2	172.5
80°	114.5	123.0	128.0	128.6	128.0
82.5°	72.7	82.6	90.6	91.7	93.1
85°	42.5	49.9	54.8	55.9	54.8
87.5°	19.0	23.9	25.3	26.4	25.3
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)