

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: P1050612

Luminaire Tested: 24PTR-45-PB1-L940-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050612
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737703)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-45-PB1-L940-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

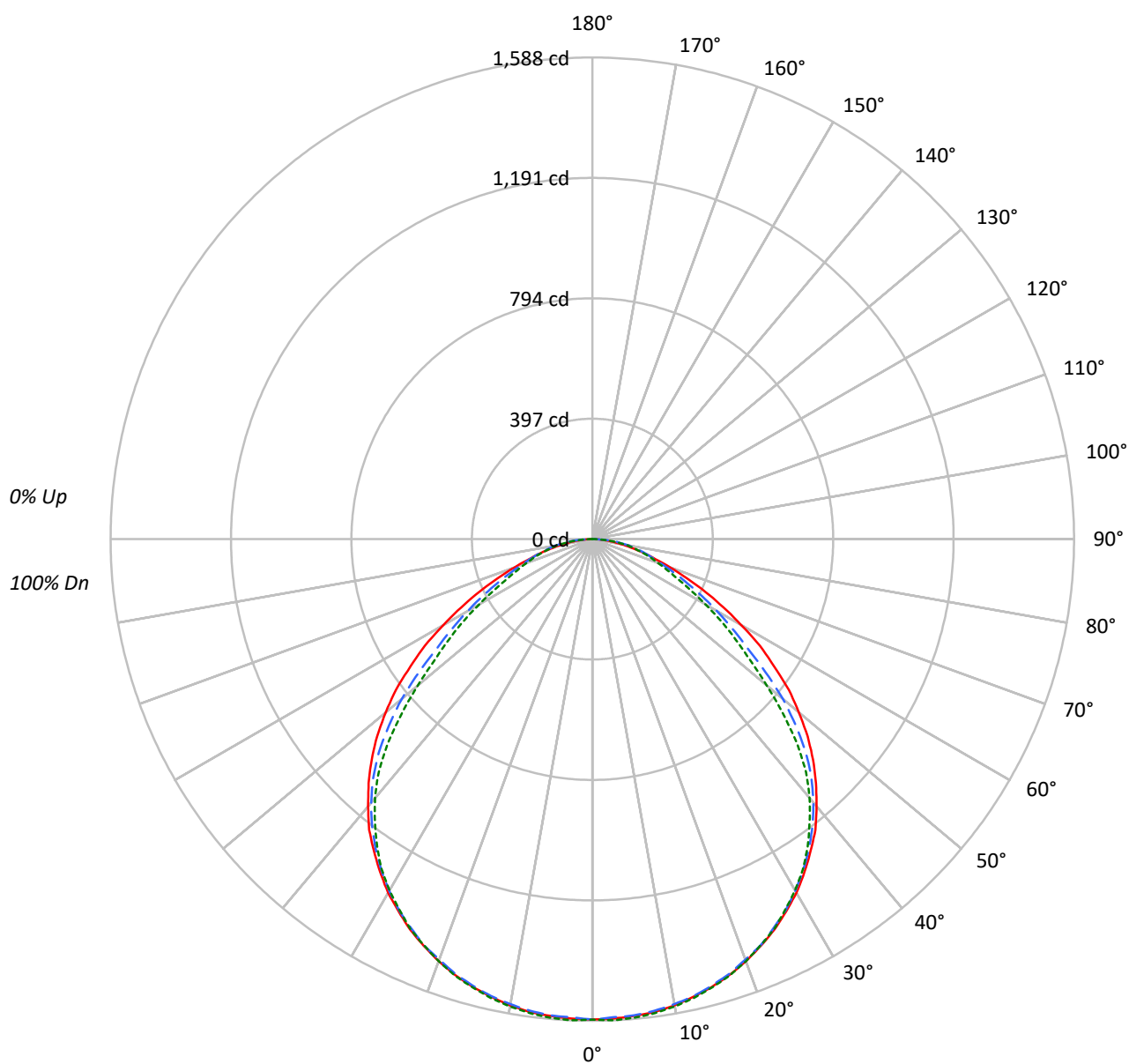
Lumens per Lamp: N/A
Luminaire Lumens: 3949.8 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37
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	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	88	88	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	75	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64	64	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	56	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	49	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	44	44	42
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	39	39	37
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	35	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	32	32	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	29	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2131	2131	2131
5°	2131	2129	2139
10°	2132	2127	2138
15°	2128	2122	2130
20°	2120	2112	2120
25°	2109	2100	2106
30°	2092	2080	2076
35°	2061	2045	2032
40°	2019	1992	1957
45°	1957	1894	1816
50°	1860	1717	1570
55°	1714	1458	1353
60°	1526	1274	1159
65°	1309	1104	987
70°	1081	974	904
75°	911	932	882
80°	770	951	907
85°	604	963	843

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1957 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.2	3.8
10°-20°	431.0	10.9
20°-30°	652.8	16.5
30°-40°	777.9	19.7
40°-50°	760.7	19.3
50°-60°	575.4	14.6
60°-70°	353.5	8.9
70°-80°	188.3	4.8
80°-90°	60.1	1.5
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°	1234.0	31.2
0°-40°	2011.9	50.9
0°-60°	3347.9	84.8
0°-90°	3949.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3949.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1584	1584	1584	1584	1584	
5°	1578	1580	1576	1582	1584	150
15°	1528	1529	1524	1529	1529	431
25°	1420	1418	1414	1416	1418	654
35°	1255	1253	1245	1239	1237	785
45°	1029	1023	996	962	955	791
55°	731	694	622	586	577	654
65°	411	378	347	320	310	409
75°	175	177	179	174	170	188
85°	39	51	62	58	55	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1584.0	1584.0	1584.0	1584.0	1584.0
2.5°	1582.2	1584.0	1578.1	1586.1	1587.9
5°	1578.1	1580.1	1576.3	1582.2	1584.0
7.5°	1572.4	1572.4	1568.5	1574.2	1576.3
10°	1560.7	1560.7	1556.8	1562.5	1564.6
12.5°	1545.2	1545.2	1543.1	1547.0	1549.0
15°	1527.6	1529.4	1523.7	1529.4	1529.4
17.5°	1506.1	1504.2	1502.2	1506.1	1508.1
20°	1480.7	1480.7	1475.0	1478.9	1480.7
22.5°	1451.5	1451.5	1449.6	1451.5	1449.6
25°	1420.4	1418.3	1414.5	1416.5	1418.3
27.5°	1383.4	1383.4	1379.5	1379.5	1377.4
30°	1346.3	1344.3	1338.6	1334.7	1336.5
32.5°	1301.5	1299.5	1293.8	1289.9	1291.7
35°	1254.7	1252.9	1245.1	1239.2	1237.3
37.5°	1208.1	1202.1	1192.3	1184.5	1176.8
40°	1149.6	1143.6	1134.0	1116.4	1114.4
42.5°	1091.1	1085.3	1069.6	1048.3	1042.4
45°	1028.7	1022.9	995.5	962.4	954.6
47.5°	962.4	952.8	909.8	868.9	853.4
50°	888.6	871.0	820.2	767.7	750.1
52.5°	816.4	785.3	719.0	672.1	654.8
55°	730.6	693.6	621.6	586.4	576.6
57.5°	654.8	604.0	545.5	510.6	502.8
60°	567.0	520.2	473.5	442.2	430.6
62.5°	487.0	446.1	407.3	379.8	366.3
65°	411.1	378.0	346.9	319.5	309.9
67.5°	337.1	319.5	294.1	272.9	266.9
70°	274.7	264.9	247.5	237.7	229.9
72.5°	218.3	222.1	210.5	206.6	200.7
75°	175.3	177.3	179.2	173.5	169.6
77.5°	132.5	142.2	149.9	146.0	142.2
80°	99.4	109.0	122.7	117.0	117.0
82.5°	68.1	80.0	91.6	87.8	85.7
85°	39.1	50.7	62.4	58.5	54.6
87.5°	15.5	25.4	27.2	27.2	25.4
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)