

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: P1050843

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

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050843
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-45-PLG-L940-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

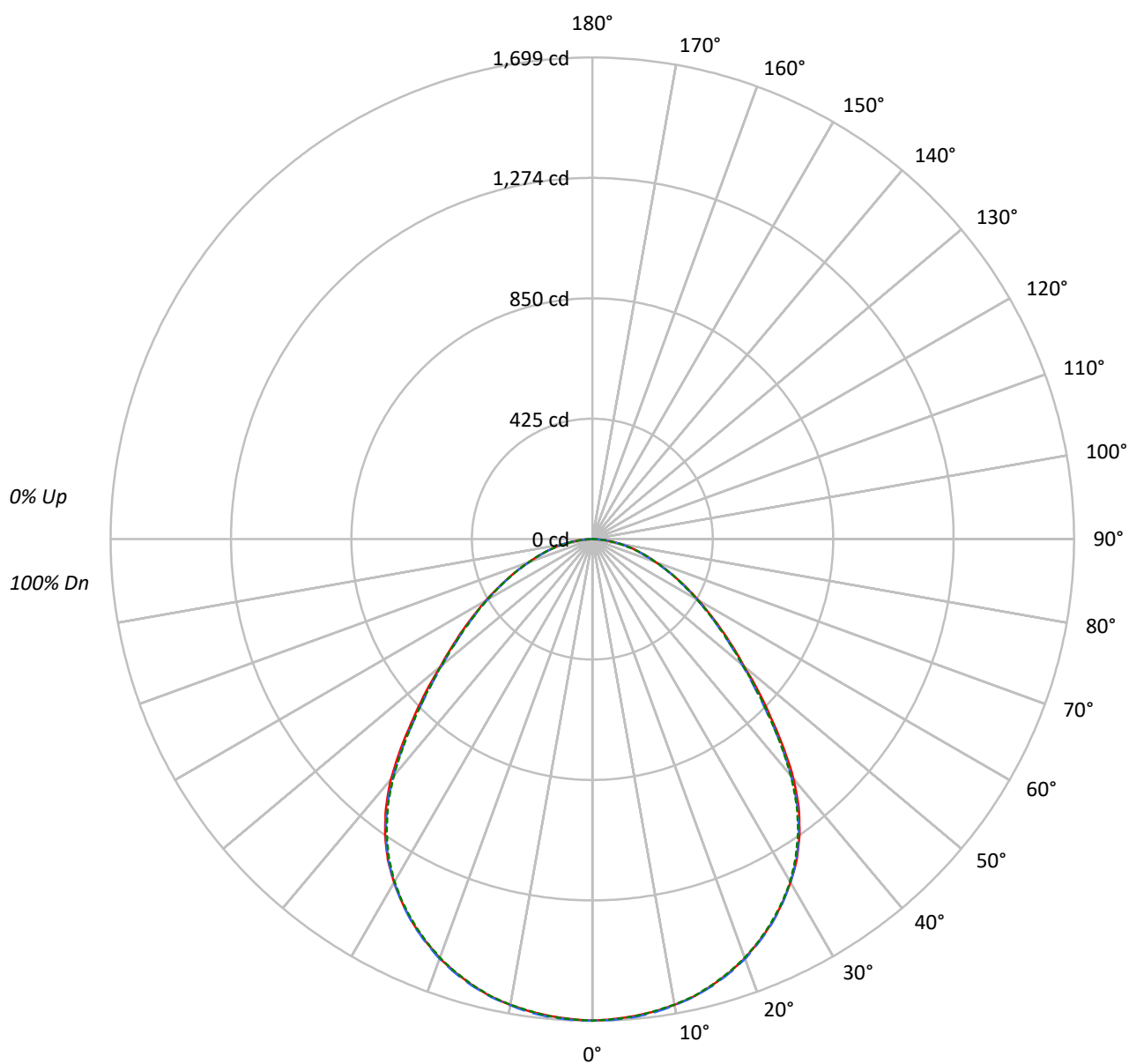
Lumens per Lamp: N/A
Luminaire Lumens: 3827.4 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	100		
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74		
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	69	66	64		
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56		
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49		
6	74	61	53	47	72	60	52	47	58	51	46	57	51	46	55	50	45	43		
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39		
8	64	51	43	38	62	51	43	38	49	42	37	48	42	37	47	41	37	35		
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32		
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2285	2285	2285
5°	2281	2286	2283
10°	2279	2281	2278
15°	2270	2274	2269
20°	2253	2256	2249
25°	2221	2223	2216
30°	2173	2173	2167
35°	2093	2087	2077
40°	1940	1918	1912
45°	1695	1668	1674
50°	1464	1446	1454
55°	1301	1281	1284
60°	1165	1149	1149
65°	1044	1036	1040
70°	939	930	939
75°	871	859	871
80°	813	804	776
85°	689	689	614

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1695 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.8	4.2
10°-20°	460.2	12.0
20°-30°	688.5	18.0
30°-40°	788.8	20.6
40°-50°	682.3	17.8
50°-60°	493.8	12.9
60°-70°	325.2	8.5
70°-80°	177.0	4.6
80°-90°	50.7	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°	1309.5	34.2
0°-40°	2098.3	54.8
0°-60°	3274.4	85.6
0°-90°	3827.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3827.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1699	1699	1699	1699	1699	
5°	1689	1693	1693	1693	1690	161
15°	1630	1631	1632	1635	1629	460
25°	1496	1496	1497	1498	1492	688
35°	1274	1273	1271	1269	1265	792
45°	891	888	876	875	880	690
55°	554	552	546	542	547	499
65°	328	330	326	323	327	327
75°	168	168	165	165	168	179
85°	45	45	45	46	40	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1698.6	1698.6	1698.6	1698.6	1698.6
2.5°	1695.0	1698.6	1697.4	1698.6	1695.0
5°	1688.9	1692.6	1692.6	1692.6	1690.1
7.5°	1680.5	1682.9	1684.1	1685.3	1679.3
10°	1668.4	1670.9	1669.6	1672.1	1667.2
12.5°	1652.8	1652.8	1654.0	1656.4	1651.6
15°	1629.9	1631.1	1632.3	1634.7	1628.7
17.5°	1603.3	1604.5	1605.8	1607.0	1602.1
20°	1573.2	1573.2	1575.6	1576.8	1570.8
22.5°	1535.8	1535.8	1538.2	1541.9	1534.6
25°	1496.1	1496.1	1497.3	1498.5	1492.4
27.5°	1449.0	1449.0	1450.2	1453.9	1446.6
30°	1398.4	1397.2	1398.4	1399.6	1394.8
32.5°	1341.7	1340.5	1339.3	1340.5	1334.5
35°	1274.2	1273.0	1270.6	1269.4	1264.6
37.5°	1195.9	1193.5	1188.6	1188.6	1183.8
40°	1104.3	1098.2	1092.2	1089.8	1088.6
42.5°	998.2	993.3	984.9	983.7	983.7
45°	890.9	888.5	876.4	875.2	880.0
47.5°	794.4	788.4	777.6	775.1	782.4
50°	699.2	700.4	690.8	687.1	694.4
52.5°	624.5	622.0	613.6	611.2	617.2
55°	554.5	552.1	546.1	542.5	547.3
57.5°	490.6	489.4	483.4	482.2	484.6
60°	432.8	431.6	426.8	425.5	426.8
62.5°	378.5	378.5	373.7	371.3	374.9
65°	327.9	330.3	325.5	323.1	326.7
67.5°	282.1	284.5	279.7	277.3	282.1
70°	238.7	241.1	236.3	233.9	238.7
72.5°	201.3	202.5	198.9	197.7	203.7
75°	167.6	167.6	165.2	165.2	167.6
77.5°	136.2	135.0	133.8	133.8	131.4
80°	104.9	103.7	103.7	103.7	100.1
82.5°	74.7	72.3	73.5	74.7	68.7
85°	44.6	44.6	44.6	45.8	39.8
87.5°	18.1	18.1	16.9	18.1	15.7
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)