

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: P1050766

Luminaire Tested: 24PTR-45-PL1-L940-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050766
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-45-PL1-L940-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

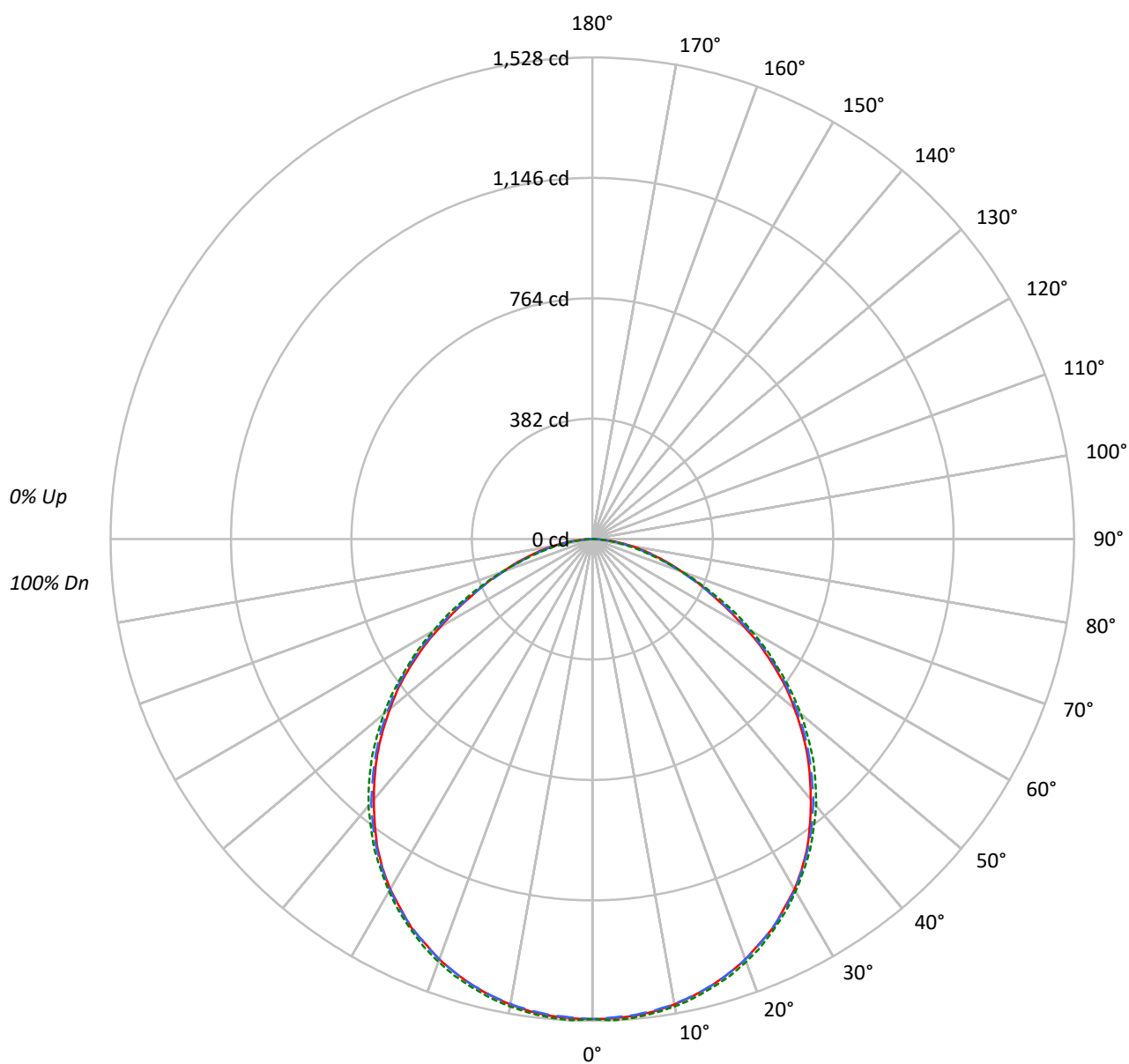
Lumens per Lamp: N/A
Luminaire Lumens: 4013.8 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72		
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61		
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	52		
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	46		
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40		
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35		
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32		
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29		
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2049	2049	2049
5°	2051	2047	2058
10°	2048	2046	2057
15°	2042	2041	2051
20°	2031	2031	2043
25°	2018	2015	2026
30°	1992	1995	2005
35°	1954	1962	1978
40°	1894	1916	1940
45°	1834	1850	1885
50°	1754	1773	1808
55°	1652	1678	1698
60°	1498	1530	1568
65°	1331	1345	1399
70°	1190	1165	1194
75°	1073	1011	991
80°	976	905	804
85°	826	750	645

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1885 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.4	3.6
10°-20°	414.3	10.3
20°-30°	626.6	15.6
30°-40°	746.9	18.6
40°-50°	751.1	18.7
50°-60°	637.4	15.9
60°-70°	424.4	10.6
70°-80°	211.9	5.3
80°-90°	56.7	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°	1185.4	29.5
0°-40°	1932.3	48.1
0°-60°	3320.8	82.7
0°-90°	4013.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4013.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1523	1523	1523	1523	1523	
5°	1518	1519	1515	1522	1524	144
15°	1466	1467	1465	1471	1472	414
25°	1359	1359	1357	1364	1365	625
35°	1190	1191	1194	1203	1204	742
45°	964	966	972	985	991	742
55°	704	709	715	722	724	628
65°	418	422	422	429	440	419
75°	206	204	194	190	191	222
85°	54	52	49	46	42	62
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1522.7	1522.7	1522.7	1522.7	1522.7
2.5°	1521.5	1522.7	1518.6	1526.0	1527.9
5°	1518.2	1518.6	1515.4	1522.1	1523.8
7.5°	1510.8	1511.5	1508.0	1515.4	1516.4
10°	1499.0	1500.2	1497.3	1504.1	1505.7
12.5°	1483.8	1485.4	1482.6	1489.9	1491.2
15°	1465.7	1467.4	1465.1	1471.3	1472.5
17.5°	1443.6	1444.8	1443.6	1449.3	1452.6
20°	1418.8	1418.8	1418.8	1423.9	1426.8
22.5°	1387.8	1390.7	1389.5	1396.3	1399.1
25°	1359.1	1359.1	1357.3	1363.7	1364.7
27.5°	1319.0	1323.5	1323.1	1328.6	1329.8
30°	1282.3	1283.5	1284.1	1288.0	1290.3
32.5°	1237.8	1238.8	1240.7	1246.2	1246.8
35°	1189.8	1191.0	1194.3	1202.7	1204.0
37.5°	1134.1	1140.2	1143.1	1152.1	1153.1
40°	1078.1	1082.0	1090.6	1100.0	1104.5
42.5°	1021.1	1025.6	1030.7	1043.7	1047.8
45°	964.1	965.8	972.1	985.0	990.8
47.5°	901.0	906.1	911.6	922.9	926.4
50°	837.8	843.4	846.9	856.9	863.7
52.5°	774.1	779.2	783.1	789.2	796.0
55°	704.2	709.1	715.4	722.2	723.9
57.5°	633.0	638.6	642.7	649.8	657.2
60°	556.8	563.1	568.7	575.4	582.8
62.5°	485.8	488.5	494.3	505.5	516.2
65°	418.0	421.5	422.5	428.9	439.5
67.5°	361.6	361.6	356.5	358.7	370.6
70°	302.4	300.1	296.2	294.0	303.6
72.5°	254.4	251.5	243.1	239.2	244.4
75°	206.4	203.6	194.5	190.0	190.6
77.5°	165.8	161.3	154.0	146.2	144.5
80°	125.9	124.0	116.8	109.5	103.7
82.5°	89.2	85.3	81.2	76.7	72.2
85°	53.5	52.5	48.6	45.7	41.8
87.5°	21.9	21.9	20.9	19.7	18.7
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)